CATALOGUE

Power connection & grounding

1. Blackburn® - Mechanical connectors
2. Color-Keyed® - Compression connector systems
3. Blackburn®/Homac®/Utilities® - Compression connectors
4. EZGround®/Furseweld®/Blackburn® - Grounding systems
5. Blackburn®/Color-Keyed®/Homac® - Tools, dies and kits

—

Thomas & Betts is now ABB Installation Products, but our long legacy of quality products and innovation remains the same. From connectors that help wire buildings on Earth to cable ties that help put machines in space, we continue to work every day to make, market, design and sell products that provide a smarter, safer and more reliable flow of electricity, from source to socket.

Installation Products

A Canadian connection since 1928

A key business line within ABB's Electrification business, Installation Products (formerly Thomas & Betts Canada) designs, manufactures and markets essential components used to manage the connection, distribution, transmission and reliability of electrical power in industrial and commercial complexes, residential and utility applications. Wherever there is electricity, you will find our products.

Thomas & Betts established a Canadian presence in 1928 to meet the unique requirements of this market. Since being acquired by ABB in 2012, the Installation Products group has maintained its strong local presence with six manufacturing facilities, sales offices across the country and a Canadian master distribution center.

More than 80% of the products sold in Canada are manufactured in Canada.

Connect with Made in Canada products

We are proud of our distinctive Canadian presence and high-quality, locally-produced products.

Edmonton, Alberta

- T&B® cable tray systems

Pointe-Claire, Quebec (2 facilities)

- Marrette® wire connectors
- NuTek® non metallic boxes
- GFI metal fabrication

Saint-Jean-sur-Richelieu, Quebec (Iberville facility)

- Joslyn Hi-Voltage® switches and reclosers
- Microlectric® meter sockets and service entrance masts
- Superstrut® metal framing systems
- T&B® cable tray systems

The Ibervillle facility is the ABB global center of excellence for cable tray products.

Saint-Jean-sur-Richelieu and Saint-Remi, Quebec

- Iberville® boxes, roughing-in products and fittings
- Star Teck® teck cable fittings
- T&B® fittings

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A

Blackburn® - Mechanical connectors

A

Blackburn - Mechanical connectors

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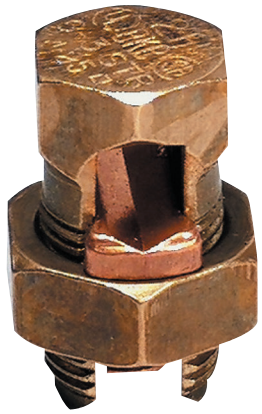
Split-bolt connectors

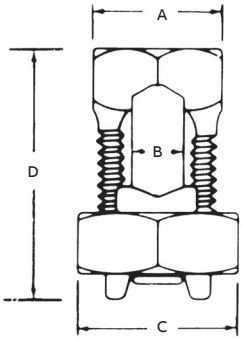
Type H – High strength split-bolt connectors



For copper to copper connections

- Bolt and nut of high strength corrosion-resistant bronze alloy
- Pressure bar is copper through 40H; copper alloy is used for 350 kcmil and above
- Bolt and nut of hex design up to 350 kcmil
- CSA certified and UL listed

Diagram

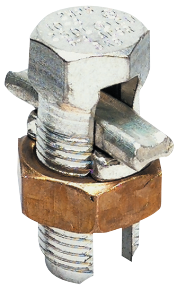


	Conductor range (AWG or kcmil)				Dimensions (in.)	
Cat. no.	Range for equal main and tap	Min. tap with one max. main	A	B	C	D
9H	10 str.–12 sol.	14 sol.	3/8	0.146	1/2	25/32
8H	8 str.–10 sol.	14 sol.	3/8	0.146	1/2	25/32
8H3*	8 str.–12 sol.	16 str.	3/8	0.146	1/2	29/32
6H	6 sol.–8 sol.	14 sol.	15/32	0.170	21/32	31/32
6H3*	6 sol.–10 sol.	16 str.	15/32	0.170	21/32	1 1/8
4H	4 sol.–8 sol.	14 sol.	17/32	0.235	23/32	1 1/16
4H3*	4 sol.–8 sol.	16 str.	17/32	0.235	23/32	1 9/32
3H	3 sol.–8 sol.	16 str.	17/32	0.235	23/32	1 1/16
3H3*	4 str.–8 sol.	16 str.	17/32	0.235	23/32	1 9/32
2H	2 sol.–6 sol.	14 sol.	19/32	0.271	25/32	1 1/4
2H3*	2 sol.–6 sol.	14 sol.	19/32	0.271	25/32	1 15/32
1H	2 str.–6 sol.	14 sol.	11/16	0.330	7/8	1 11/32
1H3**	2 str.–6 sol.	14 sol.	11/16	0.330	7/8	1 5/8
10H	1/0 str.–4 sol.	14 sol.	3/4	0.385	15/16	1 19/32
20H	2/0 str.–2 sol.	14 sol.	7/8	0.443	1 1/16	1 13/16
30H	4/0 str.–2 sol.	6 sol.	1	0.580	1 5/16	2 5/32
40H	250 –1 str.	8 sol.	1	0.580	1 5/16	2 5/32
350M	350 –250	1/0 str.	1 5/16	0.717	1 21/32	2 11/16
500M	500 –400	2/0 str.	1 1/2	0.842	1 7/8	3 1/32
750M	750 –600	4/0 str.	1 15/16	1.029	2 1/4	3 21/32
1000M	1000 –800	4/0 str.	2 1/4	1.185	2 17/32	4 1/32

* Will accommodate 3 wires of maximum size.
** Will accommodate 3 #2 str. wires.
UL recognizes solid and stranded conductor configurations for sizes #8 and smaller and stranded configurations only for sizes #6 and larger.

Split-bolt connectors

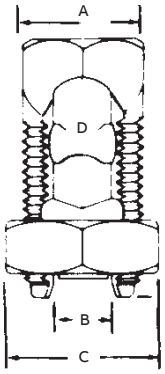
Type HPS – Plated split-bolt connectors with spacer



For use on copper, aluminum and ACSR conductors

- Most connectors are CSA certified and UL listed for copper conductors only
- Bolt and pressure bar of copper alloy completely tin-plated
- Contoured spacer of electrolytic copper up through 4/0 AWG; bronze alloy 350 kcmil and above, all tin-plated
- Blackburn Contax recommended when used on aluminum conductors

		Conductor range (AWG or)						
		Range for equal main and tap	Range for equal main and tap	Min. tap with one max. main				Dimensions (in.)
	Cat. no.	ACSR	Copper or aluminum		A	B	C	D
Diagram	9HPS	–	10 str.–12 sol.	12 sol.	3/8	0.146	1/2	29/32
	8HPS	–	8 str.–12 sol.	12 sol.	3/8	0.146	1/2	29/32
	6HPS	8	6 str.–12 sol.	12 sol.	15/32	0.170	21/32	1 1/8
	4HPS	6–8	4 sol.–12 sol.	12 sol.	17/32	0.235	23/32	1 9/32
	2HPS	4–8	2 sol.–8 sol.	8 sol.	19/32	0.274	25/32	1 15/32
	1HPS	2–8	1 str.–8 sol.	8 sol.	11/16	0.330	7/8	1 5/8
	10HPS	1–6	1/0 str.–6 sol.	6 sol.	3/4	0.385	15/16	1 13/16
	20HPS	1/0–6	2/0 str.–6 sol.	6 sol.	7/8	0.443	1 1/16	2 1/16
	40HPS	4/0–4	4/0 str.–4 sol.	4 sol.	1	0.580	1 5/16	2 15/32
	350HPS	266.8–1/0	350 –1/0 str.	2 sol.	1 5/16	0.717	1 21/32	2 11/16
	500HPS*	397.5–1/0	500 –1/0 str.	1/0 str.	1 1/2	0.842	1 7/8	3 1/32
	750HPS*	666.6–4/0	750 –4/0 str.	2/0 str.	1 15/16	1.029	2 1/4	3 21/32
	1000HPS*	900–477	1000 –500	4/0 str.	2 1/4	1.185	2 17/32	4 1/32



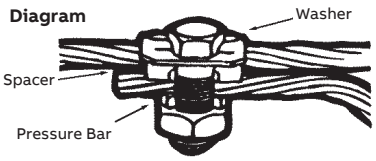
* CSA not applicable.

Type HPW – Plated split-bolt connectors with spacer and washer

For use on combinations of copper, aluminum and ACSR conductors

- Most connectors are CSA certified and UL listed for copper conductors only
- Bolt and pressure bar of high strength copper alloy completely tin-plated; spacer and washer of electrolytic copper up through 4/0 AWG; bronze alloy 350 kcmil and above, all tin-plated
- Contoured spacer and bell mouth washer distribute pressure over large area of conductor
- Large contoured spacer provides wide separation between copper and aluminum conductors
- Blackburn Contax recommended when used with aluminum conductors

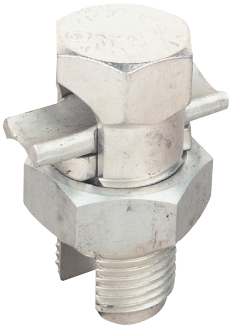
		Conductor range (AWG or kcmil)						
		Range for equal main and tap	Range for equal main and tap	Min. tap with one max. main				Dimensions (in.)
	Cat. no.	ACSR	Copper or aluminum		A	B	C	D
Diagram	6HPW	8	6 sol.–12 sol.	12 sol.	15/32	0.170	21/32	1 1/8
	4HPW	6–8	4 sol.–12 sol.	12 sol.	17/32	0.235	23/32	1 9/32
	2HPW	4–8	2 sol.–8 sol.	8 sol.	19/32	0.271	25/32	1 15/32
	1HPW	2–8	1 str.–8 sol.	8 sol.	11/16	0.330	7/8	1 5/8
	10HPW	1–6	1/0 str.–6 sol.	6 sol.	3/4	0.385	15/16	1 13/16
	20HPW	1/0–6	2/0 str.–6 sol.	6 sol.	7/8	0.443	1 1/16	2 1/16
	40HPW*	4/0–4	4/0 str.–4 sol.	4 sol.	1	0.580	1 5/16	2 15/32



* CSA not applicable.

Split-bolt connectors

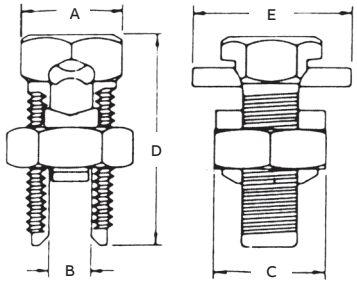
Type APS – Aluminum dual-rated split-bolts



Accommodate all aluminum and copper conductor combinations

- 6 bolts cover the range from #10 to 4/0 AWG
- Can be installed with standard wrenches
- Corrosion-resistant tin-plated aluminum
- CSA Certified and UL Listed to 90 °C 600 V

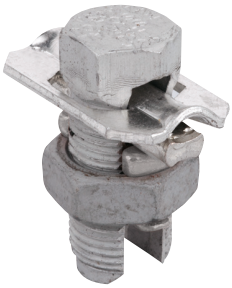
Diagrams



Cat. no.	Conductor range (AWG or kcmil) Range for equal main and tap	Dimensions (in.) A	B	C	D	E
APS06	6–10 str.	17/32	0.21	23/32	1.27	1¼
APS04	4–10 str.	19/32	0.27	25/32	1.48	1¼
APS02	2–8 str.	11/16	0.33	⅞	1.63	1¼
APS11	1/0–4 str.	⅞	0.44	1⅛	2.07	1½
APS21	2/0–4 str.	⅞	0.44	1⅛	2.07	1½
APS41	4/0–2 str.	1	0.57	1¼	2.47	1 23/32
APS350*	350–4 str.	1 7/16	0.70	1 11/16	3.36	2¼
APS500*	500–2 str.	1 11/16	0.84	2	3.62	2⅝

* Square head design CSA not applicable.

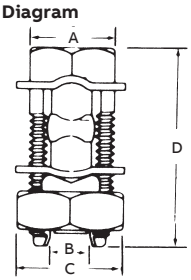
Type AAW – Aluminum split-bolt connectors with spacer and washers



For all-aluminum applications

- Bolt, nut, pressure bar and contoured spacer of aluminum alloy
- Large contoured spacer gives wide separation
- Nut anodized to prevent thread galling
- Blackburn Contax recommended when used on aluminum conductors

Diagram



Cat. no.	Conductor range (AWG or kcmil) Range for equal main and tap ACSR	Range for equal main and tap	Min. tap with one max. main Aluminum	Dimensions (in.) A	B	C	D
6AAW	6–8	4 sol.–8 sol.	10 sol.	17/32	0.236	23/32	1 9/32
4AAW	4–8	2 sol.–8 sol.	8 sol.	19/32	0.272	25/32	1 15/32
2AAW	2–8	1 str.–8 sol.	8 sol.	11/16	0.330	⅞	1⅝
1AAW	1–4	1/0 str.–8 sol.	4 sol.	⅞	0.443	1⅛	2 1/16
10AAW	1/0–4	2/0 str.–8 sol.	4 sol.	⅞	0.443	1⅛	2 1/16
40AAW	4/0–4	4/0 str.–4 sol.	4 sol.	1	0.580	1¼	2 15/32

Parallel groove connectors

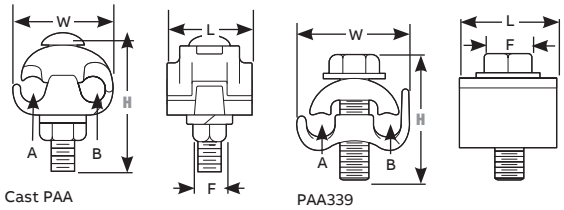
PAA one- and two-bolt aluminum parallel groove clamps

High-strength, heat-treated cast aluminum alloy provides secure connections

- All hardware items come standard
- Use on aluminum, ACSR and copper conductors
- Prevents oxidation on copper-to-aluminum connections

Standard cat. no.	Prefilled cat. no.	Conductor range (AWG or kcmil) A Main ACSR	A Main Al/Cu	B Tap ACSR	B Tap Al/Cu	Conductor diameter Main Max.	Main Min.	Tap Max.	Tap Min.	Dimensions (in.) F	L	H	W	Bolt Size
–	PAA29	#2–#6	#2 str.–#6 sol.	#2–#6	#2 str.–#6 sol.	0.316	0.162	0.316	0.162	9/16	1 13/16	1 13/32	1 3/8	5/16
–	PAA339	1/0–#6	1/0 str.–#6 sol.	1/0–#6	1/0 str.–#6 sol.	0.398	0.162	0.398	0.162	9/16	1 9/16	1 1/4	1 1/2	3/8
PAA4	PAA49	1/0–#6	1/0 str.–#6 sol.	1/0–#6	1/0 str.–#6 sol.	0.398	0.162	0.398	0.162	9/16	2 7/32	1 3/16	1 1/2	3/8
PAA5	PAA59	1/0–#8	1/0 str.–#8 sol.	1/0–#8	1/0 str.–#8 sol.	0.398	0.128	0.398	0.128	9/16	2 7/32	1 11/32	1 1/2	3/8
PAA6	PAA69	1/0–#8	2/0 str.–#8 sol.	1/0–#8	2/0 str.–#8 sol.	0.414	0.128	0.414	0.128	9/16	2 7/32	1 3/8	1 5/8	3/8
PAA10*	PAA109	336.4–1/0, 1/0–#6 AR	400–1/0 str., 1/0–#6 AR	1/0–#8	1/0 str.–#8 sol.	0.741	0.368	0.398	0.128	9/16	2 15/32	2	1 3/4	3/8
PAA12	PAA129	4/0–#2	4/0 str.–#2 sol.	4/0–#2	4/0 str.–#2 sol.	0.563	0.258	0.563	0.258	3/4	2 1/4	2	2	1/2
PAA400†	PAA4009†	336.4–1/0, 1/0–#6 AR	400–1/0 str., 1/0–#6 AR	336.4–1/0	400–1/0 str.	0.741	0.368	0.741	0.368	3/4	3 1/4	3 3/4	2 1/2	1/2

Diagrams



* RUS listed. † PAA400 and PAA4009 are two-bolt clamps. AR = Over armor rod.
NOTE: For hex-head bolt option, add "-3" suffix to the catalogue number.

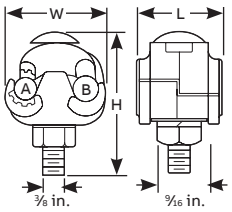
PAC aluminum parallel groove clamps with copper liner

Our most corrosion-resistant groove clamp ever

- Effectively seals out moisture and resists corrosion
- Reduces the possibility of galvanic corrosion

Standard cat. no.	Prefilled cat. no.	Conductor range (AWG or kcmil) A Main ACSR	A Main Al	B Tap Copper	Conductor diameter Main	Tap	Dimensions (in.) H	W	L
PAC345	PAC3459	1/0–#8	1/0 str.–#8 sol.	1/0 str.–#8 sol.	0.398–0.128	0.373–0.128	2 7/32	1 17/32	1 1/4
PAC7*	PAC79	336.4–1/0, 1/0–#6 AR	400–2/0 str., 1/0–#6 AR	1/0 str.–#8 sol.	0.741–0.398	0.373–0.128	2 15/32	1 5/8	1 7/8

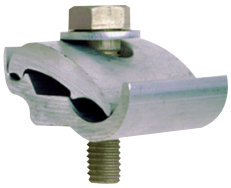
Diagrams



* RUS Listed.
NOTE: For hex-head bolt option, add "-3" suffix to the catalogue number.

Parallel groove connectors

PAE parallel groove clamps, extruded type



Galvanized steel hardware provides high strength for heavy-duty applications

- Use the tools you already have
- Standard for aluminum-to-copper connections
- Prevents oxidation on copper-to-aluminum connections

Note: For aluminum-hardware option, add "-7" suffix to the catalogue number. For tin-plating option, add "-P" suffix to the catalogue number. For wax-dip option that provides oxide protection for aluminum-to-aluminum connections, add "-6" suffix to the catalogue number.

	Conductor range (AWG or kcmil)		Conductor diameter (in.)					Dimensions (in.)							
			Main		Tap									Galvanized steel bolt	Aluminum bolt thd.
Cat. No.	Main	Tap	Max.	Min.	Max.	Min.	Fig.	H	W	L	F	B	A	thd. size	size
PAE-335-79	1/0 str.–#6 sol.	1/0 str.–#6 sol.	0.398	0.162	0.398	0.162	1	1 9/16	1 1/2	1 1/4	9/16	–	–	3/8–16 UNC	3/8–16 UNC
PAE-2121-9*	2/0 ACSR–#6 sol., #6 AR	2/0 ACSR–#6 sol., #6 AR	0.447	0.162	0.447	0.162	1	2	1 5/8	1 3/8	9/16	7/8	–	3/8–16 UNC	3/8–16 UNC
PAE-2121X-79	2/0 ACSR–#6 sol., #6 AR	2/0 ACSR–#6 sol., #6 AR	0.447	0.162	0.447	0.162	1	2	1 5/8	1 3/8	9/16	7/8	–	–	3/8–16 UNC
PAE-4141-9*	4/0 ACSR–#2 sol., #4–#6 AR	4/0 ACSR–#2 sol., #4–#6 AR	0.563	0.258	0.563	0.258	1	2	2	1 3/8	9/16	7/8	–	3/8–16 UNC	3/8–16 UNC
PAE-3921-9-2	397.5 ACSR–3/0 str., 2/0–#6 AR	2/0 str.–#6 sol., #6 AR	0.743	0.464	0.414	0.162	2	2 9/16	2 1/4	1 5/8	3/4	1 1/8	–	1/2–13 UNC	1/2–13 UNC
PAE-9941-9	1000–397.5 ACSR, 336.4–2/0 AR	4/0 ACSR–#2 sol., #4–#6 AR	1.152	0.743	0.563	0.258	3	2 13/16	2 59/64	2 1/4	3/4	–	–	1/2–13 UNC	1/2–13 UNC
PAE-3931-9-2	397.5 ACSR–3/0 str., 2/0–#6 AR	3/0 ACSR–2 str., #6 AR	0.743	0.464	0.502	0.292	4	2 9/16	2 5/16	3 3/8	3/4	–	1 3/4	1/2–13 UNC	1/2–13 UNC
PAE-3939-9-2	397.5 ACSR–3/0 str., 2/0–#6 AR	397.5 ACSR–3/0 str., 2/0–#6 AR	0.743	0.464	0.743	0.464	5	2 9/16	2 9/16	3 3/8	3/4	–	1 7/8	1/2–13 UNC	5/8–11 UNC
PAE-9921-9	1000–397.5 ACSR, 336.4–2/0 AR	2/0 str.–#6 sol., #6 AR	1.152	0.743	0.414	0.162	3	2 13/16	2 3/16	2 1/4	3/4	–	–	1/2–13 UNC	5/8–11 UNC
PAE-9939-9	1000–397.5 ACSR, 336.4–2/0 AR	397.5 ACSR–3/0 str., 2/0–#6 AR	1.152	0.743	0.743	0.464	4	2 13/16	3 7/64	3 1/2	3/4	–	1 1/2	1/2–13 UNC	5/8–11 UNC
PAE-9999-9	1000–397.5 ACSR, 336.4–2/0 AR	1000–397.5 ACSR, 336.4–2/0 AR	1.152	0.743	1.152	0.743	6	2 13/16	3 1/2	6	3/4	–	2	1/2–13 UNC	5/8–11 UNC

Diagrams

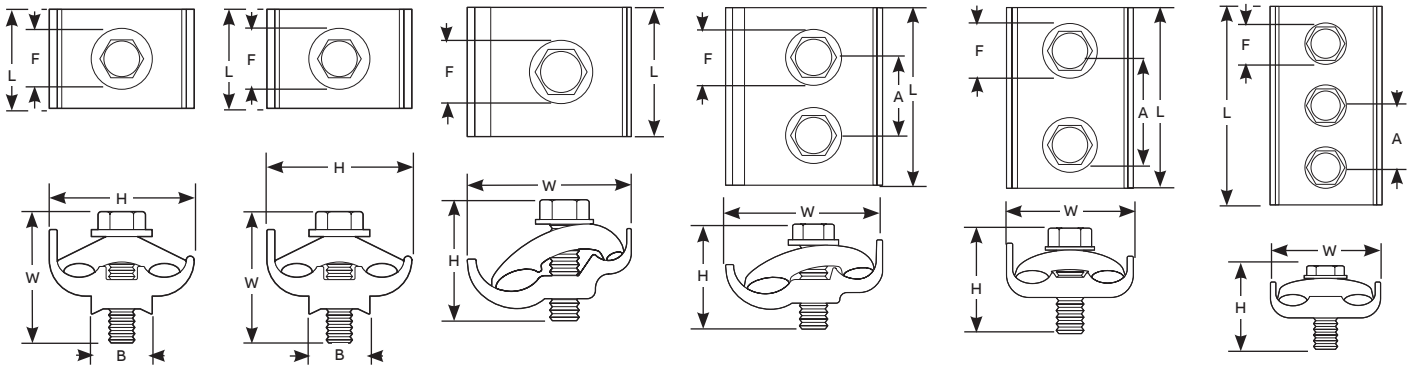


Fig. 1 Fig. 2 Fig. 3 Fig. 4 Fig. 5 Fig. 6

* RUS Listed.
AR = Over armor rod.

Parallel groove connectors

K series jumper clamps

These jumper clamps are sized right for #8 solid copper to 1/0 ACSR or 2/0 copper

- Provides high strength and durability
- Ensures a super-secure fitting
- No need to remove the bolt for installation
- Choose the model that works best with your wiring

	Plated groove			Copper groove
Cat. no.	**Max.**	**Min.**	**Max.**	**Min.**
K1	1/0 ACSR, #2 SCG amerductor, 7/16 in. galv. Steel strand	#6 ACSR, #12 SCG amerductor, #8 solid iron	2/0 str. copper, 7/16 in. Copperweld*, 2A Copperweld*	#8 solid copper, #9–12D Copperweld*

*Trademark of Copperweld.
NOTE: Plated with plating removed from one groove. For use with aluminum, amerductor or galvanized steel strand to copper or copper-bonded steel wires.

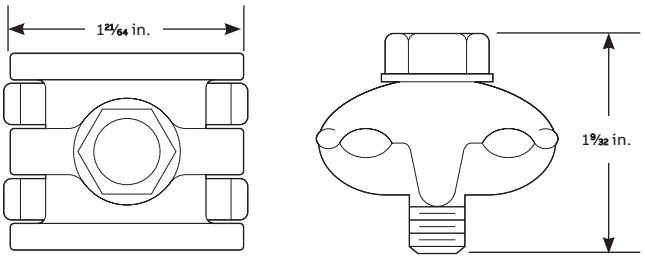
	Both Grooves Plated	
Cat. No.	**Max.**	**Min.**
K2	1/0 ACSR, #2 SCG amerductor, 7/16 in. galvanized steel strand	#6 ACSR, #12 SCG amerductor, #8 solid iron

NOTE: Clamp is plated. For use with amerductor, aluminum or galvanized steel stranding.

	Both Grooves Unplated	
Cat. No.	**Max.**	**Min.**
K3	– 2/0 str. copper, 7/16 in. Copperweld*, 2A Copperweld*	#8 solid copper, 9-½D Copperweld*

*Trademark of Copperweld.
NOTE: Clamp is not plated. For copper-to-copper connections.

Diagrams



Insulation piercing connectors

Type IPC – Talon™

- Perform as a splice or tap for non-tension applications up to 600 volts depending on the size of the connector
- Eliminate need for conductor insulation stripping
- Self-insulated for hot line applications
- No taping required after installation
- For copper-to-copper, copper-to-aluminum and aluminum-to-aluminum applications
- For use on insulated conductors only
- Six-connector line covers the range from #10 AWG–500 kcmil

	Al or Cu conductor range (AWG/kcmil)				Dimensions (in.)		
Cat. no.	**Main**	**Tap**	**No. of bolts**	**Fig.**	**W**	**H**	**L**
IPC1102*	1/0–8 50–6	2–8 35–6	1	1	2 9/16	2	1 17/32
IPC4111	4/0–1/0 95–50	1/0–6 50–16	2	2	2 1/2	2	1 19/32
IPC4141	4/0–1/0 95–50	4/0–1/0 95–50	2	2	2 5/8	3 1/4	1 29/32
IPC5041*	500–350 240–185	4/0–4 90–25	1	1	2	2 1/2	2 1/8
IPC3535	350–4/0 185–95	350–4/0 185–95	2	2	2 1/16	2 1/2	2 1/8
IPC3541V	350–4/0 185–95	4/0–10 95–6	1	1	2 3/4	3	2 5/8

Diagrams

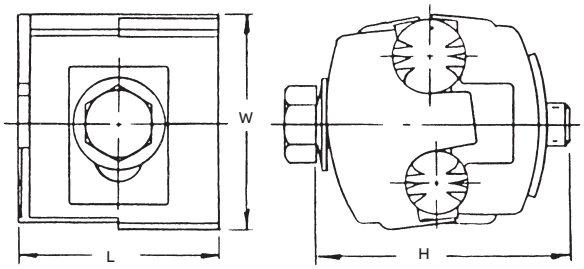


Fig. 1

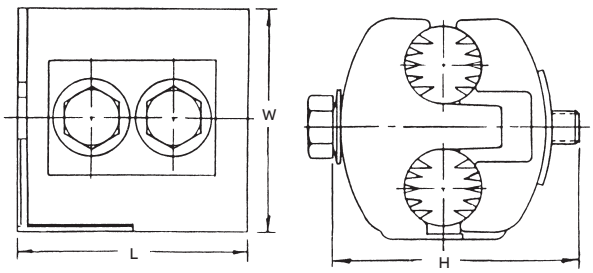


Fig. 2

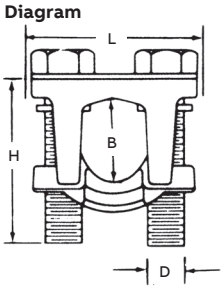
* 600 volt rating (All others 300 volts).

Two-bolt connectors

Type 2B – Two-bolt connectors without spacer

- Castings and bolts of high-strength copper alloy
- Removable neoprene washers capture each bolt in bottom casting, aiding installation

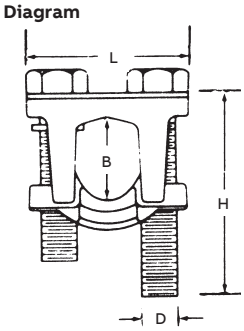
		Conductor range (AWG or kcmil)				Conductor diameter (B)		Bolt head	Dimensions (in.)		
		Main		Tap							
	Cat. no.	Max.	Min.	Max.	Min.	Max.	Min.	(in.)	L	H	D
Diagram	2B10	1/0 str.	2 str.	1/0 str.	10 sol.	0.746	0.394	½	1 5/16	1¾	5/16
	2B20BB	2/0 str.	2 str.	2/0 str.	8 sol.	0.838	0.420	½	1 5/16	1¼	5/16
	2B40	4/0 str.	1/0 str.	4/0 str.	6 sol.	1.056	0.530	9/16	1 23/32	1¾	⅜
	2B350	350	4/0 str.	350	4 sol.	1.362	0.726	¾	2⅛	2	½
	2B500	500	350	500	4 sol.	1.626	0.883	¾	2¼	2½	5/16
	2B800	800	600	800	2 sol.	2.062	1.149	¾	2½	2½	5/16
	2B1000	1000	750	1000	2 sol.	2.304	1.255	1 5/16	2 31/32	2¾	⅝



Type 2BX – One-piece two-bolt connectors without spacer

- Castings and bolts of high-strength copper alloy
- One-piece construction
- Free bolt is held in place with neoprene washer during installation
- One extra length bolt allows top casting to swing free over two conductors of maximum range

		Conductor range (AWG or kcmil)				Conductor diameter (B)		Bolt head	Dimensions (in.)		
		Main		Tap							
	Cat. no.	Max.	Min.	Max.	Min.	Max.	Min.	(in.)	L	H	D
Diagram	2B10X	1/0 str.	2 str.	1/0 str.	10 sol.	0.746	0.394	½	1 5/16	1½	5/16
	2B20X	2/0 str.	2 str.	2/0 str.	8 sol.	0.838	0.420	½	1 5/16	1½	5/16
	2B40X	4/0 str.	1/0 str.	4/0 str.	6 sol.	1.056	0.530	9/16	1 23/32	1⅞	⅜
	2B350X	350	4/0 str.	350	4 sol.	1.362	0.726	¾	2⅛	2¼	½
	2B500X	500	350	500	4 sol.	1.626	0.883	¾	2¼	2½	½
	2B800X	800	600	800	2 sol.	2.062	1.149	¾	2½	2¾	½
	2B1000X	1000	750	1000	2 sol.	2.304	1.255	15/16	2 31/32	3¼	⅝

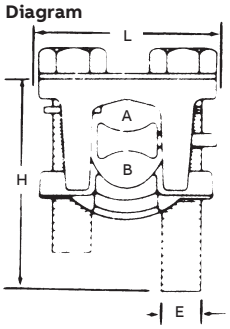


Two-bolt connectors

Type 2BW – One-piece two-bolt connectors with spacer

- For use on copper conductors only
- Castings and bolts of high-strength copper alloy; spacer of ductile, high-conductivity copper alloy
- One-piece construction; contoured spacer is ringed and swings easily over the conductor

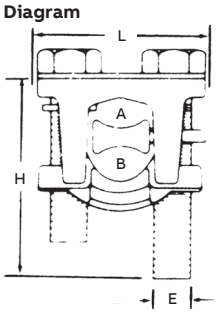
		Conductor range (AWG or kcmil)				Conductor diameter							
		Main		Tap		A		B		Bolt head	Dimensions (in.)		
	Cat. no.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	(in.)	L	H	E
Diagram	2B10W	1/0 str.	2 str.	1/0 str.	10 sol.	0.373	0.292	0.373	0.102	½	1 5/16	1⅝	5/16
	2B20W	2/0 str.	2 str.	2/0 str.	8 sol.	0.419	0.292	0.419	0.128	½	1 5/16	1⅝	5/16
	2B40W	4/0 str.	1/0 str.	4/0 str.	6 sol.	0.528	0.368	0.528	0.162	9/16	1 23/32	2⅛	⅜
	2B350W	350	4/0 str.	350	4 sol.	0.681	0.522	0.681	0.204	¾	2⅛	2½	½
	2B500W	500	350	500	4 sol.	0.813	0.679	0.813	0.204	¾	2¼	2¾	½
	2B800W	800	600	800	2 sol.	1.031	0.891	1.031	0.258	¾	2½	3¼	½
	2B1000W	1000	750	1000	2 sol.	1.152	0.997	1.152	0.258	15/16	2 31/32	3¾	⅝



Type 2BPW – One-piece two-bolt connectors with spacer

- For use on copper, aluminum and ACSR conductors

		Conductor range (AWG or kcmil)				Conductor diameter							
		Main		Tap		A		B		Bolt head	Dimensions (in.)		
	Cat. no.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	(in.)	L	H	E
Diagram	2B10PW	1/0–2	1/0–6	1/0 str.–2 str.	1/0 str.–2 str.	0.398	0.292	0.398	0.102	½	1 5/16	1⅝	5/16
	2B20PW	2/0–2	2/0–6	1/0 str.–2 str.	1/0 str.–2 str.	0.447	0.292	0.447	0.128	½	1 5/16	1⅝	5/16
	2B40PW	4/0–1/0	4/0–6	4/0 str.–1/0 str.	4/0 str.–1/0 str.	0.563	0.368	0.563	0.162	9/16	1 23/32	2⅛	⅜
	2B350PW	350–4/0	350–4	350–4/0	350–4 sol.	0.680	0.522	0.680	0.204	¾	2⅛	2½	½
	2B500PW	397.5–336.4	397.5–4	500–350	500–4 sol.	0.813	0.679	0.813	0.204	¾	2¼	2¾	½
	2B800PW	666.6–397.5	666.6–2	800–600	800–2 sol.	1.031	0.891	1.031	0.258	¾	2½	3¼	½
	2B1000PW	900–666.6	900–2	1000–750	1000–2 sol.	1.162	0.997	1.162	0.258	15/16	2 31/32	3¾	⅝



AMT connectors

The high quality and built-in flexibility of the Blackburn AMT connectors reduce the cost of field installations on splices, taps and terminations. They're easy and quick to install, eliminating the need for time-consuming taping and provide superior insulation that lasts the life of the connection.

Features and benefits

- PVC insulation eliminates failures and reduces outage costs
- UV-resistant material
- Compact design provides space efficiencies
- Dual-rated for copper and aluminum conductors (CSA certified and UL listed, for 600 V, 90 °C)

Black insulation cat. no.	Wire range (AWG or kcmil)	Dimensions (in.) Length	Width	Height	Screw type
Splices					
AMTSR10	1/0–#14 str.	2.68	0.81	1.55	Slotted
AMTSR250	250–#6 str.	4.00	1.06	2.00	5/16 Hex
AMTSR350	350–#6 str.	4.56	1.37	2.12	5/16 Hex
AMTSR500	500–#4 str.	6.18	1.61	2.56	5/16 Hex
Offset splices					
AMTTC4	#4–#14 str.	1.15	1.5	1.25	Slotted
AMTT10	1/0–#14 str.	1.63	1.63	1.63	3/16 Hex
AMTT20	2/0–#14 str.	1.89	1.68	1.86	Slotted
AMTT250	250–#10 str.	2.12	2.63	2.13	5/16 Hex
Cable blocks – One-way configuration — #4–#14 AWG stranded					
AMTS4142	#4–#14 str.	1.15	1.25	1.25	Slotted
AMTS4143	#4–#14 str.	1.63	1.25	1.25	Slotted
AMTS4144	#4–#14 str.	2.12	1.25	1.25	Slotted
AMTS4145	#4–#14 str.	2.61	1.25	1.25	Slotted
AMTS4146	#4–#14 str.	3.09	1.25	1.25	Slotted
Cable blocks – One-way configuration — 2/0–#14 AWG stranded					
AMTS20142	2/0–#14 str.	1.63	1.50	1.63	3/16 Hex
AMTS20143	2/0–#14 str.	2.35	1.50	1.63	3/16 Hex
AMTS20144	2/0–#14 str.	3.08	1.50	1.63	3/16 Hex
AMTS20145	2/0–#14 str.	3.80	1.50	1.63	3/16 Hex
AMTS20146	2/0–#14 str.	4.53	1.50	1.63	3/16 Hex
AMTS20147	2/0–#14 str.	5.26	1.50	1.63	3/16 Hex
AMTS20148	2/0–#14 str.	5.98	1.50	1.63	3/16 Hex

AMT connectors

Black insulation cat. no.	Wire range (AWG or kcmil)	Dimensions (in.) Length	Width	Height	Screw type
Cable blocks – One-way configuration – 250 kcmil–#6 AWG stranded					
AMTS25062	250–#6 str.	2.12	2.13	2.13	5/16 Hex
AMTS25063	250–#6 str.	3.09	2.13	2.13	5/16 Hex
AMTS25064	250–#6 str.	4.06	2.13	2.13	5/16 Hex
AMTS25065	250–#6 str.	5.03	2.13	2.13	5/16 Hex
AMTS25066	250–#6 str.	6.00	2.13	2.13	5/16 Hex
AMTS25067	250–#6 str.	6.98	2.13	2.13	5/16 Hex
AMTS25068	250–#6 str.	7.95	2.13	2.13	5/16 Hex
Cable blocks – One-way configuration – 350 kcmil–#10 AWG stranded					
AMTS35062	350–#10 str.	2.22	2.37	2.50	5/16 Hex
AMTS35063	350–#10 str.	3.24	2.37	2.50	5/16 Hex
AMTS35064	350–#10 str.	4.26	2.37	2.50	5/16 Hex
AMTS35065	350–#10 str.	5.28	2.37	2.50	5/16 Hex
AMTS35066	350–#10 str.	6.30	2.37	2.50	5/16 Hex
AMTS35067	350–#10 str.	7.31	2.37	2.50	5/16 Hex
AMTS35068	350–#10 str.	8.34	2.37	2.50	5/16 Hex
Cable blocks – One-way configuration – 500 kcmil–#6 AWG stranded					
AMTS50042	500–#6 str.	2.71	2.38	2.75	5/16 Hex
AMTS50043	500–#6 str.	3.99	2.38	2.75	5/16 Hex
AMTS50044	500–#6 str.	5.26	2.38	2.75	5/16 Hex
AMTS50045	500–#6 str.	6.53	2.38	2.75	5/16 Hex
AMTS50046	500–#6 str.	7.81	2.38	2.75	5/16 Hex
AMTS50047	500–#6 str.	9.08	2.38	2.75	5/16 Hex
AMTS50048	500–#6 str.	10.35	2.38	2.75	5/16 Hex
Cable blocks – Two-way configuration – #4–#14 AWG stranded					
AMTD4142	#4–#14 str.	1.15	1.50	1.25	Slotted
AMTD4143	#4–#14 str.	1.63	1.50	1.25	Slotted
AMTD4144	#4–#14 str.	2.12	1.50	1.25	Slotted
AMTD4145	#4–#14 str.	2.61	1.50	1.25	Slotted
AMTD4146	#4–#14 str.	3.09	1.50	1.25	Slotted
AMTD4147	#4–#14 str.	3.58	1.50	1.25	Slotted
AMTD4148	#4–#14 str.	4.07	1.50	1.25	Slotted
Cable blocks – Two-way configuration – #4–#14 AWG stranded					
AMTD20142	2/0–#14 str.	1.63	1.68	1.63	3/16 Hex
AMTD20143	2/0–#14 str.	2.35	1.68	1.63	3/16 Hex
AMTD20144	2/0–#14 str.	3.08	1.68	1.63	3/16 Hex
AMTD20145	2/0–#14 str.	3.80	1.68	1.63	3/16 Hex
AMTD20146	2/0–#14 str.	4.53	1.68	1.63	3/16 Hex
AMTD20147	2/0–#14 str.	5.26	1.68	1.63	3/16 Hex
AMTD20148	2/0–#14 str.	5.98	1.68	1.63	3/16 Hex
Cable blocks – Two-way configuration – 250 kcmil–#6 AWG stranded					
AMTD25062	250–#6 str.	2.12	2.64	2.13	5/16 Hex
AMTD25063	250–#6 str.	3.09	2.64	2.13	5/16 Hex
AMTD25064	250–#6 str.	4.06	2.64	2.13	5/16 Hex
AMTD25065	250–#6 str.	5.03	2.64	2.13	5/16 Hex
AMTD25066	250–#6 str.	6.00	2.64	2.13	5/16 Hex
AMTD25067	250–#6 str.	6.98	2.64	2.13	5/16 Hex
AMTD25068	250–#6 str.	7.95	2.64	2.13	5/16 Hex

AMT connectors

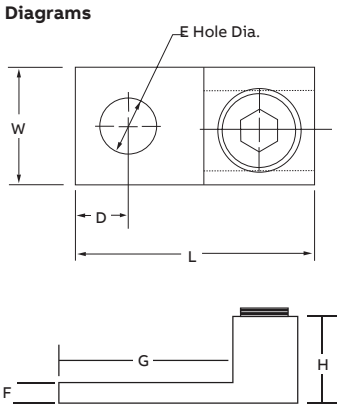
Black insulation cat. no.	Wire range (AWG)	Dimensions (in.) Length	Width	Height	Screw type
Cable blocks – Two-way configuration – 350 kcmil–#10 AWG stranded					
AMTD35062	350–#10 str.	2.22	3.00	2.50	⅜ Hex
AMTD35063	350–#10 str.	3.24	3.00	2.50	⅜ Hex
AMTD35064	350–#10 str.	4.26	3.00	2.50	⅜ Hex
AMTD35065	350–#10 str.	5.28	3.00	2.50	⅜ Hex
AMTD35066	350–#10 str.	6.30	3.00	2.50	⅜ Hex
AMTD35067	350–#10 str.	7.31	3.00	2.50	⅜ Hex
AMTD35068	350–#10 str.	8.34	3.00	2.50	⅜ Hex
Cable blocks – Two-way configuration – 500 kcmil–#4 AWG stranded					
AMTD50042	500–#4 str.	2.71	3.00	2.75	⅜ Hex
AMTD50043	500–#4 str.	3.99	3.00	2.75	⅜ Hex
AMTD50044	500–#4 str.	5.26	3.00	2.75	⅜ Hex
AMTD50045	500–#4 str.	6.53	3.00	2.75	⅜ Hex
AMTD50046	500–#4 str.	7.81	3.00	2.75	⅜ Hex
AMTD50047	500–#4 str.	9.08	3.00	2.75	⅜ Hex
AMTD50048	500–#4 str.	10.35	3.00	2.75	⅜ Hex
Cable blocks – Two-way configuration – 750–250 kcmil					
AMTD7502502	750–250	3.00	3.13	2.38	⅜ Hex
AMTD7502503	750–250	4.40	3.13	2.38	⅜ Hex
AMTD7502504	750–250	5.81	3.13	2.38	⅜ Hex
AMTD7502505	750–250	7.21	3.13	2.38	⅜ Hex
AMTD7502506	750–250	8.62	3.13	2.38	⅜ Hex
AMTD7502507	750–250	10.03	3.13	2.38	⅜ Hex
AMTD7502508	750–250	11.44	3.13	2.38	⅜ Hex

Dual-rated mechanical connectors

Type ADR–ALCÜL™ – Single conductor, one-hole mount

- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- CSA certified and UL listed, AL9CU, 600 V rated
- All aluminum bodies
- Slotted screw on lugs up through 2/0 AWG str.; 5/16 socket screw on sizes 250 through 350 kcmil; 3/8 hex socket on sizes 500 kcmil and above

Diagrams



Cat. no.	Conductor range (AWG or kcmil) Max.	Min.	L	W	H	D	E	F	G
			Dimensions (in.)						
Slotted screw									
ADR6	6 str.	14 A	1 3/64	1/2	31/64	15/64	1/4	5/64	43/64
ADR2	2 str.	14 A	1 5/32	1/2	9/16	19/64	1/4	7/64	11/16
ADR11	1/0 str.	14 A	1 15/32	5/8	25/32	7/16	1/4	3/16	27/32
ADR21	2/0 str.	14 A	1 15/32	5/8	25/32	7/16	1/4	3/16	27/32
Socket screw									
ADR25	250	6 str.	2	1	1 1/8	15/32	5/16	1/4	1
ADR30	300	6 str.	2	1	1 1/8	15/32	5/16	1/4	1
ADR35	350	6 str.	2 1/4	1 1/8	1 1/4	1/2	3/8	1/4	1 1/8
ADR50	500	4 str.	2 13/16	1 1/2	1 9/16	3/4	3/8	5/16	1 19/32
ADR60	600	2 str.	3 3/16	1 1/2	1 9/16	13/16	3/8	7/16	1 13/16
ADR6004*	600 (2) 250	4 str. (2) 1/0 str.	2 13/16	1 3/8	1 13/16	5/8	3/8	5/16	1 1/2
ADR80	800	300	3 3/8	1 3/4	1 15/16	7/8	5/8	1/2	1 3/4
ADR99	1000	500	3 3/8	1 3/4	1 15/16	7/8	5/8	1/2	1 3/4

* UL and CSA not applicable.

Type ADR–ALCÜL – Anti-rotational connector

- Unique bottom rib keeps connector from turning
- Eliminates the need for excessive torque, which can damage large conductors
- Prevents connector loosening, even in heavy-vibration applications

Diagrams

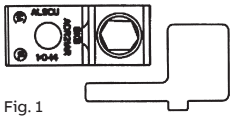


Fig. 1

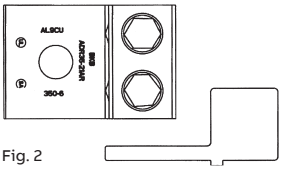


Fig. 2

Cat. no.	Conductor range (AWG or kcmil) Max.	Min.	Bolt hole (in.)	Figure
ADR21-AR	2/0	14	1/4	1
ADR30-AR	300	6	7/16	1
ADR35-AR	350	6	5/16	1
ADR60-AR	600	2	1/2	1
ADR35-21-AR	350	6	3/8	2
ADR60-21-AR	600	2	1/2	2

Dual-rated mechanical connectors

Type ADR–ALCÜL – Single conductor, two-hole mount*

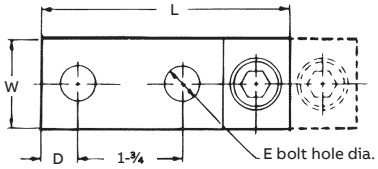
Fig. 1

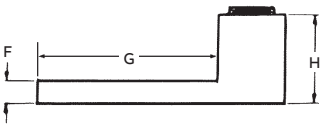
Fig. 2

- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- All aluminum bodies

		Conductor range Al or Cu (AWG or kcmil)							Dimensions (in.)	
Cat. no.	Figure	Max.	Min.	L	W	H	D	E	F	G
ADR35-12	1	350	6 str.	4¼	1¼	1⅜	⅝	½	5/16	3
ADR60-12D	2	600	2 str.	5 5/16	1½	1½	⅝	½	⅜	3 1/16
ADR80-12D	2	800	300	6 3/16	1¾	1⅞	⅝	½	9/16	3 7/16
ADR99-12D	2	1,000	350	6 3/16	1¾	1⅞	⅝	½	9/16	3 7/16

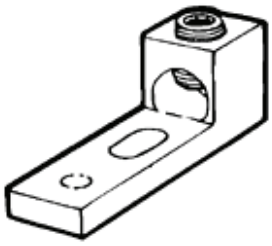
Diagrams





* NEMA spacing: 1¾ in. centers.
Connectors accommodating conductors 600 kcmil and larger have double row of set screws (D suffix).

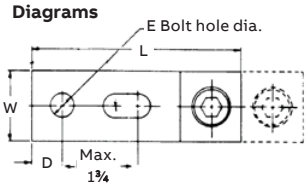
Type ADR–ALCÜL – Single conductor, switchgear mount

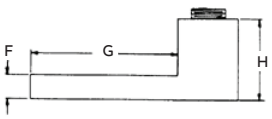


- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- All aluminum bodies

	Conductor range Al or Cu (AWG or kcmil)							Dimensions (in.)	
Cat. no.	Max.	Min.	L	W	H	D	E	F	G
ADR35-12S	350	4 str.	4 11/16	1¼	1 9/16	23/32	½	7/16	3 5/16
ADR80-12DS	800	300	6 3/16	1⅝	1⅞	23/32	½	9/16	3 7/16

Diagrams





* NEMA spacing: 1¾ in. centers except ADR25-12S: 1 in. centers.
Connectors accommodating conductors 600 kcmil and larger have double row of set screws (D suffix).

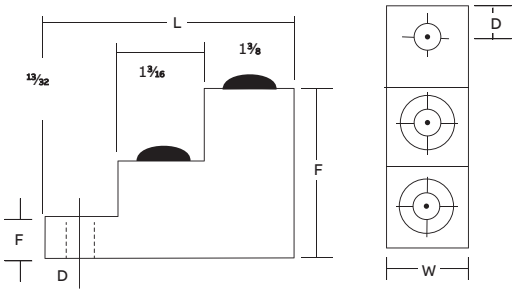
Dual-rated mechanical connectors

Type ASL–ALCÜL – Two conductors, one-hole mount

- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- All aluminum bodies

	Conductor range (AWG or kcmil)		Dimensions (in.)					
Cat. no.	Max.	Min.	L	W	H	D	F	Mtg. hole dia. (in.)
ASL30-21	300	6 str.	3	1⅛	2	15/32	½	5/16

Diagrams

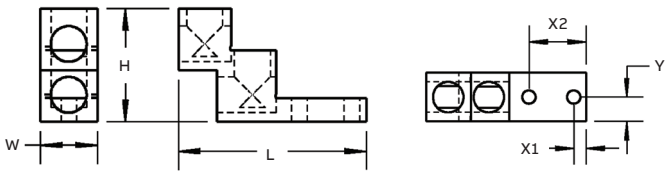


Type ASL–ALCÜL – Two conductors, two-hole mount

- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- All aluminum bodies

	Conductor range (AWG or kcmil)		Dimensions (in.)					
Cat. no.	Max.	Min.	L	W	H	X1	X2	Y1
ASL60-22	600	2 str.	4.91	1.50	2.96	0.375	1.75	0.75
ASL75-22	750	3/0 str.	4.91	1.69	2.96	0.375	1.75	0.84

Diagrams



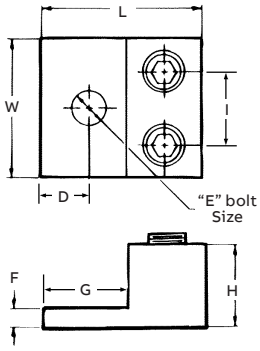
Dual-rated mechanical connectors

Type ADR–ALCÜL – Two conductors, one-hole mount

- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- All aluminum bodies

	Conductor range (AWG or kcmil)								Dimensions (in.)		
Cat. no.	Max.	Min.	L	W	H	D	E	F	G	I
ADR11-21	1/0 str.	14	1 15/32	1 7/32	25/32	7/16	1/4	3/16	27/32	35/64
ADR21-21	2/0 str.	14	1 15/32	1 1/4	25/32	27/64	1/4	3/16	27/32	21/32
ADR25-21	250	6 str.	2 9/16	1 41/64	1 3/16	7/8	3/8	1/4	1 9/16	13/16
ADR35-21	350	6 str.	2 7/8	1 59/64	1 1/4	7/8	1/2	1/4	1 3/4	61/64
ADR60-21	600	2 str.	3 3/16	2 13/32	1 9/16	5/8	1/2	7/16	1 13/16	1 7/32
ADR80-21	800	300	3 3/8	3 3/16	1 15/16	7/8	5/8	1/2	1 3/4	1 5/8
ADR99-21	1000	500	3 3/8	3 3/16	1 15/16	7/8	5/8	1/2	1 3/4	1 5/8

Diagrams



Type ADR–ALCÜL – Two conductors, two-hole mount*

- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- All aluminum bodies

		Conductor range (AWG or kcmil)								Dimensions (in.)	
Cat. no.	Figure	Max.	Min.	L	W	H	D	E	F	G	I
ADR35-22	1	350	6 str.	4 1/4	2 19/64	1 3/8	5/8	1/2	5/16	3	1 7/32
ADR60-22D	2	600	2 str.	5 5/16	2 3/4	1 1/2	5/8	1/2	3/8	3 1/16	1 7/16
ADR80-22D	2	800	300	6 3/16	3 1/2	1 7/8	5/8	1/2	9/16	3 1/16	1 13/16
ADR99-22D	2	1000	350	6 3/16	3 1/2	1 7/8	5/8	1/2	9/16	3 1/16	1 13/16

Diagrams

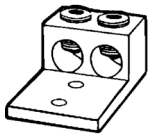


Fig. 1

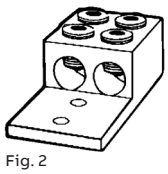
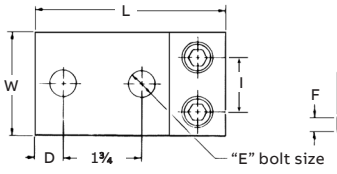
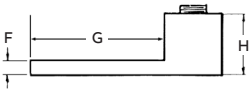


Fig. 2





* NEMA spacing: 1 3/4 in. centers.
Connectors accommodating conductors 600 kcmil and larger have double row of set screws (D suffix).

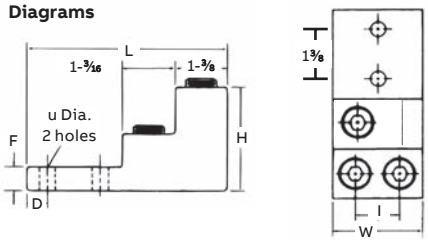
Dual-rated mechanical connectors

Type ASL–ALCÜL – Three conductors, two-hole mount

- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- All aluminum bodies

	Conductor range (AWG or kcmil)									Dimensions (in.)	
Cat. no.	Max.	Min.	L	W	H	F	D	I	X2	X1	Y
ASL60-32	600	2 str.	4 29/32	2 1/2	3	3/4	3/8	1 7/32	1.75	0.375	1.234

Diagrams

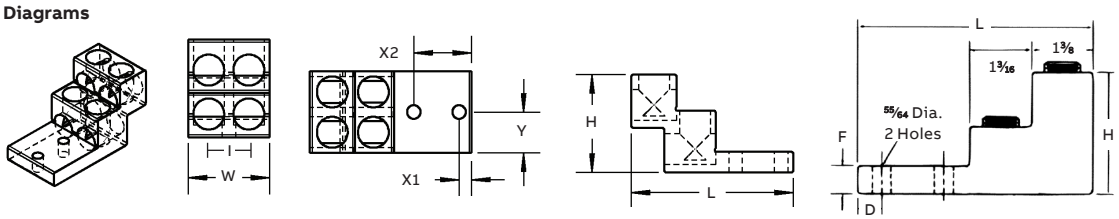


Type ASL–ALCÜL – Four conductors, two-hole mount

- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- All aluminum bodies

	Conductor range (AWG or kcmil)									Dimensions (in.)	
Cat. no.	Max.	Min.	L	W	H	F	D	I	X2	X1	Y
ASL60-42	600	2 str.	4 29/32	2 1/2	3	3/4	3/8	1 7/32	1.75	0.375	1.234
ASL75-42	750	3/0 str.	4 29/32	2 31/50	3	3/4	3/8	1 5/16	1.75	0.375	1.31

Diagrams



Dual-rated mechanical connectors

Type ADR–ALCÜL – Three conductors, two-hole mount*

- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- CSA certified and UL listed
- All aluminum bodies

		Conductor range (AWG or kcmil)									Dimensions (in.)
Cat. no.	**Figure**	**Max.**	**Min.**	**L**	**W**	**H**	**D**	**E**	**F**	**G**	**I**
ADR02-32	1	2 str.	14	2 3/16	1 5/8	5/8	11/32	5/16	3/16	1 11/16	9/16
ADR11-32	1	1/0 str.	14	2 29/32	2	7/8	11/32	3/8	1/4	2 5/32	45/64
ADR31-32	1	3/0 str.	6 str.	4	2 13/16	1 3/16	5/8	1/2	5/16	3	31/32
ADR25-32	1	250	6 str.	4 3/16	2 13/16	1 1/4	5/8	1/2	1/4	3 1/16	31/32
ADR35-32	1	350	6 str.	4 3/16	3 3/16	1 1/4	5/8	1/2	1/4	3 1/16	1 1/32
ADR50-32	1	500	4 str.	4 11/16	3 3/4	1 9/16	5/8	1/2	7/16	3 5/16	1 1/4
ADR60-32D	2	600	2 str.	5 5/16	4 3/16	1 1/2	5/8	1/2	3/8	3 1/6	1 7/16
ADR80-32	2	800	300	6 3/16	4 1/2	1 7/8	5/8	1/2	9/16	3 7/16	1 9/16
ADR99-32	2	1000	500	6 3/16	4 3/4	1 7/8	5/8	1/2	9/16	3 7/16	1 41/64

Diagrams

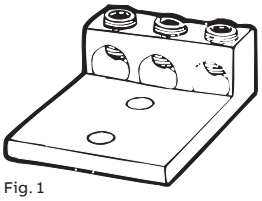


Fig. 1

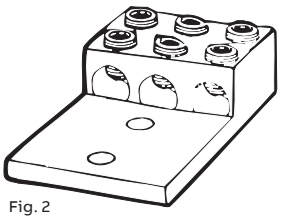
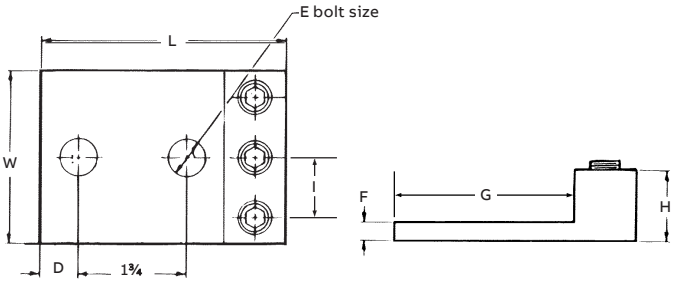


Fig. 2



* NEMA spacing: 1 3/4 in. centers except ADR02-32; 7/8 in. centers and ADR11-32; 1 in. centers.
Connectors accommodating conductors 600 kcmil and larger have double row of set screws (D suffix).

Dual-rated mechanical connectors

Type ADR–ALCÜL – Three conductors, four-hole mount**

- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- All aluminum bodies

		Conductor range (AWG or kcmil)									Dimensions (in.)
Cat. no.	**Figure**	**Max.**	**Min.**	**L**	**W**	**H**	**D**	**E**	**F**	**G**	**I**
ADR02-34	1	2 str.	14	2 3/16	1 5/8	5/8	11/32	5/16	3/16	1 11/16	9/16
ADR11-34	1	1/0 str.	14	2 29/32	2	7/8	11/32	3/8	1/4	2 5/32	45/64
ADR31-34	1	3/0 str.	6 str.	4	2 13/16	1 3/16	5/8	1/2	5/16	3	31/32
ADR25-34*	1	250	6 str.	4 3/16	2 13/16	1 1/4	5/8	1/2	1/4	3 1/16	31/32
ADR35-34*	1	350	6 str.	4 3/16	3 3/16	1 1/4	5/8	1/2	1/4	3 1/16	1 1/32
ADR50-34*	1	500	4 str.	4 11/16	3 3/4	1 9/16	5/8	1/2	7/16	3 5/16	1 1/4
ADR60-34D	2	600	2 str.	5 5/16	4 3/16	1 1/2	5/8	1/2	3/8	3 1/16	1 7/16
ADR80-34*	2	800	300	6 3/16	4 1/2	1 7/8	5/8	1/2	9/16	3 7/16	1 9/16
ADR99-34*	2	1000	500	6 3/16	4 3/4	1 7/8	5/8	1/2	9/16	3 7/16	1 41/64

Diagrams

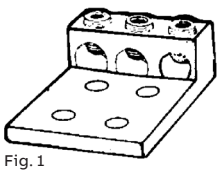


Fig. 1

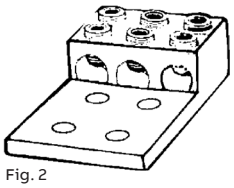
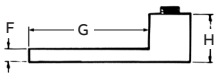
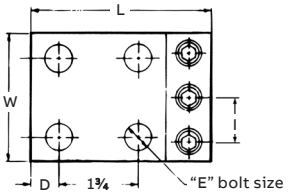


Fig. 2





* UL listed.
** NEMA spacing: 1 3/4 in. centers except ADR02-34; 7/8 in. centers and ADR11-34; 1 in. centers.
Connectors accommodating conductors 600 kcmil and larger have double row of set screws (D suffix).

Type ADR–ALCÜL – Four conductors, four-hole mount*

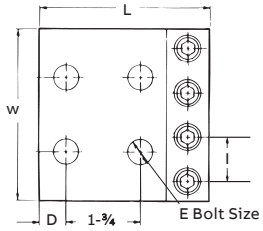
Fig. 1

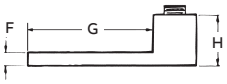
Fig. 2

- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- All aluminum bodies

		Conductor range (AWG or kcmil)									Dimensions (in.)
Cat. no.	**Figure**	**Max.**	**Min.**	**L**	**W**	**H**	**D**	**E**	**F**	**G**	**I**
ADR25-44	1	250	6 str.	4	4 1/16	1 3/16	5/8	1/2	5/16	3	1 3/64
ADR35-44	1	350	6 str.	4 1/4	4 23/32	1 3/8	5/8	1/2	5/16	3	1 7/32
ADR60-44D	2	600	2 str.	5 5/16	5 5/8	1 1/2	5/8	1/2	3/8	3 1/16	1 7/16
ADR80-44D	2	800	350	6 3/16	7 1/8	1 7/8	5/8	1/2	9/16	3 7/16	1 13/16

Diagrams





* NEMA spacing: 1 3/4 in. centers.
Connectors accommodating conductors 600 kcmil and larger have double row of set screws (D suffix).

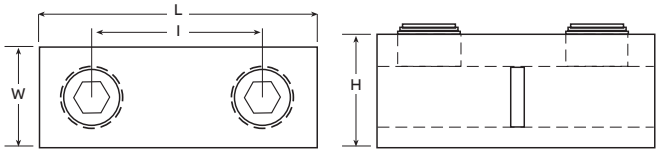
Dual-rated mechanical connectors

Type ASR–ALCÜL – Splice reducers with solid barrier wire stop

- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- All aluminum bodies

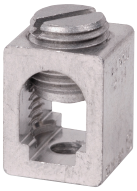
	Conductor range Al or Cu (AWG or kcmil)					Dimensions (in.)
Cat. no.	Max.	Min.	L	W	H	I
ASR0214*	2 str.	14	1¼	33/64	39/64	21/32
ASR1114*	1/0 str.	14	1½	39/64	23/32	51/64
ASR2506	250	6 str.	2⅛	55/64	31/32	1 7/64
ASR3506	350	6 str.	2⅜	1 1/32	1⅛	1¼
ASR7525**	750	250	6¼	1⅝	1¾	1⅝

Diagrams

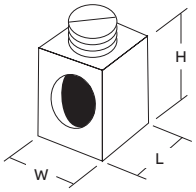


* Slotted screws.
** Two set screws per end. CSA not applicable.

Type BX–ALCÜL – Rectangular connectors



- Recognized component in accordance with UL standard – 90 °C rating
- Anti-rotational boss
- For copper and aluminum conductors
- Easy installation – no special tools required
- Tin-plated for low contact resistance
- All aluminum bodies

		Conductor range (AWG or kcmil)				Dimensions (in.)		
	Cat. No.	Max.	Min.	Style & size of boss	Boss hole tapped	L	W	H
Diagram 	BX0214	2	14 Cu 12 Al	Square 0.229 in.	10–32	15/32	15/32	9/16
	BX1114	1/0	14 Cu 12 Al	Square 0.229 in.	10–32	⅝	17/32	39/64

Tightening torque values for aluminum dual-rated socket screw connectors

AWG or kcmil size	Tightening torque (in.-lb) Screwdriver	Wrench	AWG or kcmil size	Tightening torque (in.-lb) Screwdriver	Wrench
12	20	75	4/0	–	200
10	20	75	250	–	200
8	20	75	350	–	200
6	35	100	500	–	300
4	35	100	600	–	300

AWG or kcmil size	Tightening torque (in.-lb) Screwdriver	Wrench	AWG or kcmil size	Tightening torque (in.-lb) Screwdriver	Wrench
2	50	125	700	–	300
1	50	125	750	–	300
1/0	50	150	800	–	300
2/0	50	150	1000	–	400
3/0	–	200	–	–	400

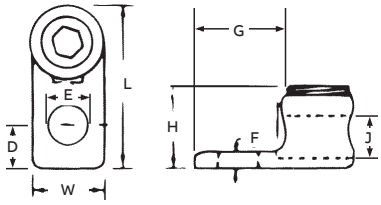
Copper mechanical connectors

Type L – Single conductor, one-hole mount

- For copper conductors
- Screws are plated steel
- Compact design
- Add suffix P to catalogue number for tin plating
- One-piece construction for strength and durability
- Excellent for confined quarters
- Cat. nos. L400 and L650 are cast from high strength bronze alloy
- Cat. nos. L35, L70, L125 and L250 are cold forged from pure electrolytic copper
- Other models are cast from high strength bronze alloy
- CSA certified and UL listed

Cat. no.		Conductor range (AWG or kcmil)								Dimensions (in.)	
Socket	Hex	Max.	Min.	L	W	H	F	D	J	E	G
L35*	–	8 str.	14 sol.	13/16	3/8	3/8	3/32	13/64	11/64	13/64	1/2
L70*	–	4 str.	14 sol.	1 1/8	17/32	35/64	3/32	9/32	9/32	9/32	21/32
L125BB**	L125H	1/0 str.	8 sol.	1 1/2	47/64	3/4	3/32	3/8	27/64	21/64	27/32
L250**	L250H	250	6 str.	1 61/64	15/16	1 1/16	1/8	29/64	5/8	13/32	1 3/32
L400-BB**	L400H	500	4/0 str.	3	1 13/32	1 15/32	9/32	5/8	7/8	9/16	1 5/8
L650BB**	L650H	1000	500	4	2	2 3/16	17/32	3/4	1 1/4	9/16	2

Diagrams

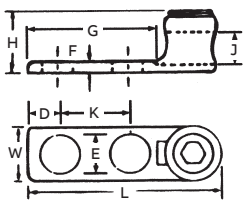


* Sizes L35 and L70 have screwdriver slot head screws only.
** Sizes L125 and up are Allen head screws.

Type L – Single conductor, two-hole mount

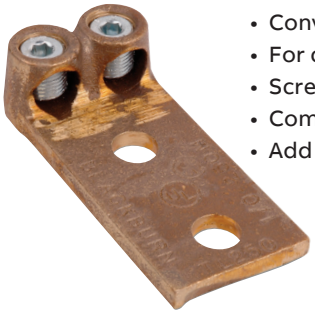
- Cast from high strength bronze alloy
- For use where large contact area is required to provide a more secure mounting
- CSA certified and UL listed

	Cat. no.		Conductor range (AWG or kcmil)								Dimensions (in.)		
	Socket	Hex	Max.	Min.	L	W	H	F	D	K	E	G	J
Diagrams	L1252	L1252H	1/0 str.	4 str.	2 13/16	25/32	13/16	3/16	7/16	1	11/32	2	27/64
	L2502	L2502H	250	1/0 str.	3	3	1 1/32	15/64	7/16	1	13/32	1 7/8	5/8
	L4002	L4002H	500	4/0 str.	3 3/8	3 3/8	1 15/32	5/16	7/16	1	13/32	1 15/16	57/64
	L6502-BB	L6502H	1000	500	4 15/16	4 15/16	2	3/8	9/16	1 1/2	9/16	2 3/4	1 1/4



Copper mechanical connectors

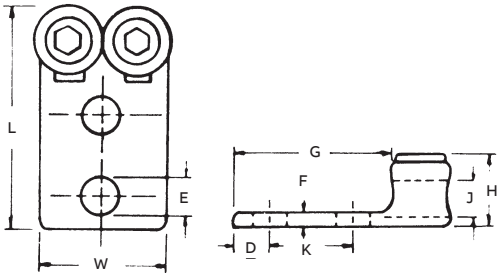
Type TL – Two conductors, two-hole mount



- Conveniently terminates parallel conductors
- For copper conductors
- Screws are plated steel
- Compact design
- Add suffix P to catalogue number for tin plating
- One-piece construction for strength and durability
- Excellent for confined quarters
- CSA certified and UL listed
- Cast from high strength bronze alloy

Cat. no.		Conductor range (AWG or kcmil)										Dimensions (in.)
Socket	Hex	Max.	Min.	L	W	H	F	K	E	D	G	J
TL250	TL250H	250	1/0 str.	4 5/16	1 7/8	9/32	5/8	1 3/4	9/16	1 1/16	3 3/16	5/8
TL400	TL400H	500	4/0 str.	4 3/4	2 9/16	13/32	11/16	1 3/4	9/16	1 9/16	3	7/8
TL650*	TL650H	1000	500	5 9/16	3 1/4	9/16	5/8	1 3/4	9/16	2 3/16	3 3/8	1 1/4

Diagrams



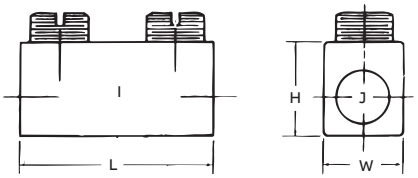
*Four hole NEMA tang on TL650.

Type S – Copper end-to-end splice connectors

- Cast of high strength bronze alloy
- Plated steel socket head set screws
- For copper conductors
- Compact design
- Add suffix P to catalogue number for tin plating
- One-piece construction for strength and durability
- Excellent for confined quarters
- CSA Certified and UL Listed

Cat. no.	Conductor range (AWG or kcmil) Max.	Min.	L	W	H	J	Dimensions (in.) I
S100BB	1 str.	4 str.	1 11/16	5/8	11/16	3/8	15/16
S225BB*	4 str.	1 str.	2 3/16	27/32	31/32	9/16	1 3/16
S400BB	500	4/0 str.	2 7/8	1 3/16	1 5/16	7/8	1 5/8

Diagrams



* Not UL listed.

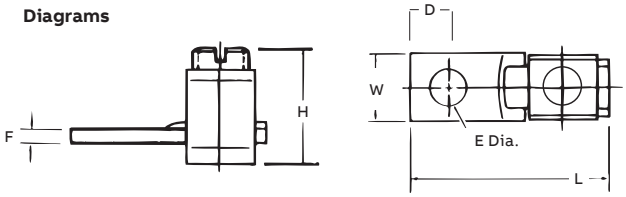
Copper mechanical connectors

Type STC – Copper single conductor, one-hole mount (straight tang)

- Uniquely designed pressure bar and notched V-bottom collar provide a vise-like grip between conductor and terminal
- CSA certified and UL listed for copper conductors
- Made of electrolytic seamless copper
- Screws are zinc plated steel

	Conductor range (AWG or kcmil)						Dimensions (in.)	
Cat. no.	**Max.**	**Min.**	**L**	**W**	**H**	**F**	**E**	**D**
STC1014*	10	14	1	5/16	1/2	5/64	5/32	3/16
STC0614	6 str.	14	19/64	3/8	11/16	5/64	13/64	7/32
STC0414	4 str.	14	1 1/4	1/2	37/32	3/32	17/64	1/4
STC0208	2 str.	8 str.	1 15/32	1/2	31/32	3/32	17/64	1/7
STC1102	1/0 str.	2 str.	1 15/16	5/8	1 1/4	1/8	17/64	7/16
STC3104	3/0 str.	4 str.	2 1/4	3/4	1 9/16	1/8	13/32	7/16
STC4102	4/0 str.	2 str.	2 3/8	1	1 21/32	1/8	11/32	1/2
STC3511	350	1/0 str.	3 1/4	1	1 5/8	3/16	13/32	5/8
STC5011	500	1/0 str.	3 7/8	1 1/2	1 13/16	3/16	13/32	15/16
STC9960	1000	600	5	2	2 5/8	1/4	17/32	1 1/8

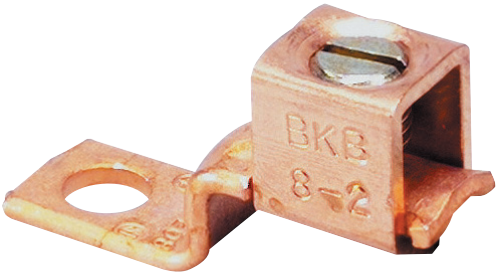
Diagrams



* CSA not applicable.

Copper mechanical connectors

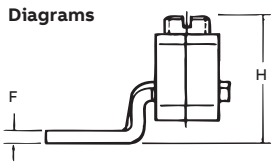
Type BTC – Copper single conductor, one-hole mount (offset tang)

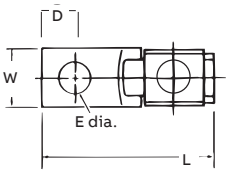


- CSA certified and UL listed, tested for copper conductors
- Made of electrolytic seamless copper
- Screws are zinc plated steel

	Conductor range (AWG or kcmil)						Dimensions (in.)	
Cat. no.	**Max.**	**Min.**	**L**	**W**	**H**	**F**	**E**	**D**
BTC1014*	10	14	1	5/16	43/64	5/64	5/32	3/16
BTC0614	6 str.	14	1 3/32	3/8	25/32	5/64	13/64	7/32
BTC0208	2 str.	8 str.	1 15/32	1/2	27/32	3/32	17/64	1/4
BTC1102	1/0 str.	2 str.	1 25/32	5/8	1 13/32	1/8	17/64	7/16
BTC3104	3/0 str.	4 str.	2 3/64	3/4	1 9/16	1/8	13/32	7/16
BTC4102	4/0 str.	2 str.	2 9/16	1	1 61/64	1/8	11/32	1/2
BTC3511	350	1/0 str.	3 1/4	1	2 1/2	3/16	13/32	5/8
BTC5011	500	1/0 str.	4 1/4	1 1/2	2 21/32	3/16	13/32	15/16
BTC9960	1000	600	4 3/4	2	3 9/16	1/4	17/32	1 1/8

Diagrams





Direct burial splice kits

UFSK148DB

DBSK82

Fast, easy installation.
Blackburn direct burial splice kits make splicing cables up to 600 V for direct burial applications a snap.

UFSK148DB UF direct burial splice kit

- Splices 14 AWG to 8 AWG underground feeder (UF) cable (copper only)
- Rated for 600 V
- Convenient and simple to install — no special training required
- 4-in-1 connector design accommodates multi-conductor (up to 4), 3-phase + neutral or single-phase wiring systems
- Supplied insulated phase/connection barrier speeds installation by eliminating the need to insulate individual connectors
- Included heat-shrink insulation cover with adhesive ensures a proper watertight/ weatherproof seal overall
- UL listed for direct burial

DBSK82 direct burial splice kit

- Splices 8 AWG to 2 AWG copper or aluminum conductors (non-UF)
- Rated for 600 V
- High-strength aluminum alloy construction in a simple one-piece design
- Includes heavy-wall heat-shrink tubing with sealant for a watertight splice
- Withstands abrasions from direct burial in rocky soil
- Rated for operating temperatures to 90 °C (194 °F)
- UL listed for direct burial

Cat. no.	Description	Wire range (AWG)	Std. pkg. qty.
UFSK148DB*	UF direct burial splice kit	14–8	10
DBSK82	Direct burial splice kit (non-UF)	8–2	10

* CSA not applicable.

Competitive cross reference

Type H – High strength split-bolt connectors							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**Anderson**	**Joslyn**	**Dossert**	**Eritech**
9H	S-10	KS90	IK-10	C-10	J3657	DS-09F	ESB10
8H	S-8	KS15	IK-8	C-8	J3608	DS-1F	ESB8
8H3	SEL-8	–	SEL8S	C-8-L	–	–	–
6H	S-6	KS17	IK-6	C-6	J3606	DS-2F	ESB6
6H3	SEL-6	KS17-3	SEL6S	C-6-L	J3608	DS-2-3	–
4H	S-4	KS20	IK-4	C-4	J3604	DS-3F	ESB4
4H3	SEL-4	KS20-3	SEL4S	C-4-L	J3604	DS-3-3	–
3H	–	–	–	–	–	–	ESB3
3H3	–	–	–	–	–	–	–
2H	S-3	KS22	IK-3	C-2	J3602	DS-5F	ESB2
2H3	SEL-3	KS22-3	–	C-2-L	J3602	DS-5-3	–
1H	S-2	KS23	IK-2	C-1	–	DS-6F	–
1H3	SEL-2	–	SEL-2S	C-1-L	–	DS-6-3	–
10H	S-1/0	KS25	IK-1/0	C-1/0	J3610	DS-10F	ESB1/0
20H	S-2/0	KS26	IK-2/0	C-2/0	–	DS-13F	ESB2/0
30H	S-3/0	KL27	IK-3/0	C-3/0	–	DS-17	ESB4/0
40H	S-4/0-250	–	KS29	IK-250	C-4/0	DS-25C	ESB250
350M	S-350	KS31	IK-350	C-350	J3635	DS-35	ESB350
500M	S-500	KS34	IK-500	C-500	J2650	DS-50	ESB500
750M	S-750	KS39	IK-750	C-750	J3675	DS-75	ESB750
1000M	S-1000	KS44	IK-1000	C-1000	J3679	DS-100	–
Type HPS – Plated split-bolt connectors with spacer							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**Anderson**	**Joslyn**	**Dossert**	**Eritech**
9HPS	SW-1	–	–	–	–	–	–
8HPS	SW-2	–	–	–	–	–	ESBP8
6HPS	SW-3	KSU17	SK-6	–	–	DSNS2	ESBP9
4HPS	SW-4	KSU20	SK-4	–	–	DSNS3F	ESBP6
2HPS	SW-5	KSU22	SK-3	–	–	DSNS5F	ESBP2
1HPS	SW-6	KSU23	SK-2	–	–	DSNS6F	–
10HPS	SW-7	KSU25	SK-1/0	–	–	DSNS10F	ESBP1/0
20HPS	SW-8	KSU26	SK-2/0	–	–	DSNS13F	ESBP2/0
40HPS	SW-9A	KSU27	SK-3/0	–	–	DSNS25C	ESBP4/0
350HPS	SW-11	KSU31	SK-350	–	–	DSNS35	ESBP350
500HPS	SW-12	KSU34	SK-500	–	–	DSNS50	ESBP500
750HPS	SW-13	–	–	–	–	DSNS75	–
1000HPS	SW-14	–	–	–	–	DSNS100	–
Type APS – Aluminum dual-rated split-bolts							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**Anderson**	**Joslyn**	**Dossert**	**Eritech**
APS06	–	KSA-6	AK-6	–	–	–	ASBP6
APS04	–	KSA-4	AK-4	–	–	–	ASBP4
APS02	SW-6	KSA-2	AK-2	–	–	–	ASBP2
APS11	SW-7	KSA-1/0	AK-1/0	–	–	–	ASBP1/0
APS21	SW-8	KSA-2/0	AK-2/0	–	–	–	ASBP2/0
APS41	SW-9	KSA-4/0	AK-4/0	–	–	–	ASBP4/0
APS350	SW-11	KSA-350	AK-350	–	–	–	–
APS500	SW-12	KSA-500	AK-500	–	–	–	–

Competitive cross reference

Type IPC – Talon™ insulation piercing connectors

Blackburn	Penn Union	Burndy	Ilsco/Utilco	Kupler
IPC1102	–	–	IPC-1/0-2	130001
IPC4111	–	–	IPC-4/0-1/0	130003
IPC4141	–	–	IPC-4/0-4/0	130004
IPC5041	–	–	IPC-500-4/0	130005
IPC3535	–	–	IPC-350-350	130012
IPC3541	–	–	IPC-350-4/0	130013

Type 2B – Two-bolt connectors without spacer

Blackburn	Penn Union	Burndy	Ilsco/Utilco	Anderson	Joslyn	Dossert	Chance	Kearney
2B10	VT-0	–	–	K-1	–	DSU10	–	17280
2B20BB	VT-1	KVS26	–	K-2	–	DSU13	OOUC	16369
2B40	VT-2	KVS28	IKB-4/0	K-3	–	DSU21	–	–
2B350	VT-3	KVS31	IKB-350	K-4	–	DSU35	35UC	16371
2B500	VT-4	KVS34	IKB-500	K-5	–	DSU50	50UC	16372
2B800	VT-5	KVS40	IKB-800	K-6	–	DSU80	75UC	–
2B1000	VT-6	KVS44	IKB-1000	K-7	–	DSU100	100UC	16374

Type 2BX – One-piece two-bolt connectors without spacer

Blackburn	Penn Union	Burndy	Ilsco/Utilco	Anderson	Joslyn	Dossert	Chance	Kearney
2B10X	VT-0L	–	–	–	–	–	–	–
2B20X	VT-1L	–	–	–	–	–	–	–
2B40X	VT-2L	–	–	–	–	–	–	–
2B350X	VT-3L	–	–	–	–	–	–	–
2B500X	VT-4L	–	–	–	–	–	–	–
2B800X	VT-5L	–	–	–	–	–	–	–
2B1000X	VT-6L	–	–	–	–	–	–	–

Type 2BPW – Plated two-bolt connector with spacer

Blackburn	Penn Union	Burndy	Ilsco/Utilco	Anderson	Joslyn	Dossert	Chance	Kearney
2B10PW	VTA-0L	–	–	KR-1TP	–	DSUN10	–	–
2B20PW	VTA-1L	KVSU26	–	KR-2TP	–	DSUN13	–	–
2B40PW	VTA-2L	KVSU28	IKS-4/0	KR-3TP	–	DSUN21	–	–
2B350PW	VTA-3L	KVSU31	IKS-350	KR-4TP	–	DSUN35	–	–
2B500PW	VTA-4L	KVSU34	IKS-500	KR-5TP	–	DSUN50	–	–
2B800PW	VTA-5L	KVSU40	IKS-800	KR-6TP	–	DSUN80	–	–
2B1000PW	VTA-6L	KVSU44	IKS-1000	KR-7TP	–	DSUN100	–	–

Type 2BW – One-piece two-bolt connector with spacer

Blackburn	Penn Union	Burndy	Ilsco/Utilco	Anderson	Joslyn	Dossert	Chance	Kearney
2B10W	VTW-0L	–	–	KR-1	–	DSUS10	–	–
2B20W	VTW-1L	KVSW26	–	KR-2	–	DSUS13	–	–
2B40W	VTW-2L	KVSW28	–	KR-3	–	DSUS21	–	–
2B350W	VTW-3L	KVSW31	–	KR-4	–	DSUS35	–	–
2B500W	VTW-4L	KVSW34	–	KR-5	–	DSUS50	–	–
2B800W	VTW-5L	KVSW40	–	KR-6	–	DSUS80	–	–
2B1000W	VTW-6L	KVSW44	–	KR-7	–	DSUS100	–	–

Competitive cross reference

Types L – Copper mechanical connectors, single conductor, one-hole mount							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**ABB**	**Anderson**	**Dossert**	**Gedney**
L35	PNL-8	KA8C	SLU-35	31003	LU-08	D-35	SL081
L70	PNL-4	KA4C	SLU-70	31005	LU-04	D-70	SL041
L125	PNL-1/0	KA25	LO-0	31007	LU-1/0	D-10	SL211
L250	PNL-250	KA28	LO-250	31011	–	D-25	SL241
L400	PNL-500	KA34	LO-500	31015	LU-500	D-50	SL501
L650	PNL-1000	QA44B	LO-1000	31019	LU-1000	D-100	SL921
Types L – Copper mechanical connectors, single conductor, two-hole mount							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**ABB**	**Anderson**	**Dossert**	**Gedney**
L1252	PNL-1/0-2	QA1C-2B	E-125	32007	–	–	SL212
L2502	PNL-250-2	QA28-2B	E-225	32011	–	–	SL242
L4002	PNL-500-2	QA35-2B	E-400	32015	–	–	S1502
L6502	PNL-1000-2	QA44-2B	E-650	32019	–	–	SL922
Types TL – Copper mechanical connectors, two conductors, two-hole mount							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**ABB**	**Anderson**	**Dossert**	**Gedney**
TL250	–	Q2A31-2N	LU-4	32013BD	–	D2-25	SLL302
TL400	SLL504	Q2A34-2N	–	32015BD	LU2-500-2N	D2-50	SLL504
TL650	–	Q2A44-2N	–	32019BD	–	D2-100	SLL924
Type STC – Copper single conductor, one-hole mount, straight tang							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**ABB**	**Anderson**	**Dossert**	**Gedney**
STC1014	–	–	SLS25	–	–	–	–
STC0614	–	KPA8CUP	SLS35	–	–	–	–
STC0414	–	KPA4CUP	SAS70	–	–	–	–
STC0208	–	–	SLS70	–	–	–	–
STC1102	–	KPA25UP	SLS125	–	–	–	–
STC3104	–	–	SLS175	–	–	–	–
STC4102	–	KPA28UP	SLS225	–	–	–	–
STC3511	–	–	SLS300	–	–	–	–
STC5011	–	KPA34UP	SLS400	–	–	–	–
STC9960	–	–	SLS650	–	–	–	–
Type BTC – Copper single conductor, one-hole mount, offset tang							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**ABB**	**Anderson**	**Dossert**	**Gedney**
BTC1014	SLU-25	–	SLU-25	–	–	–	–
BTC0614	SLU-35	KPA8C	SLU-35	–	–	G-35-1	–
BTC0208	SLU-70	KPA4C	SLU-70	–	–	G-70-1	–
BTC1102	SLU-125	KPA25	SLU-125	–	–	G-125-1	–
BTC3104	SLU-175	–	SLU-175	–	–	–	–
BTC4102	SLU-225	KPA28	SLU-225	–	–	G-225-1	–
BTC3511	SLU-300	–	SLU-300	–	–	–	–
BTC5011	SLU-400	KPA34	SLU-400	–	–	G-400-1	–
BTC9960	SLU-650	–	SLU-650	–	–	G-650-1	–

Competitive cross reference

Type ADR ALCÜL – Aluminum dual-rated connectors, single conductor, one-hole mount							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**ABB**	**Anderson**	**Dossert**	**Gedney**
ADR6	LA-6	KA6U	TA-6-S	–	–	–	–
ADR2	LA-2	KA2U	TA-2	–	–	–	–
ADR11	LA-0	KA-26U	TA-0	–	–	–	–
ADR21	LA-2/0	KA26U	TA-2/0	–	–	–	–
ADR25	LA-250	KA29U	TA-250	–	–	–	–
ADR30	–	KA30U	TA-300	–	–	–	–
ADR35	LA-350	KA31U	TA-350	–	–	–	–
ADR50	LA-500	KA34U	TA-500	–	–	–	–
ADR60	LA-600	KA36U	TA-600	–	–	–	–
ADR6004	–	–	TA-500S	–	–	–	–
ADR80	LA-800	KA40U	TA-800	–	–	–	–
ADR99	LA-1000	KA44U	TA-1000	–	–	–	–
Type ADR ALCÜL – Aluminum dual-rated connectors, two conductors, one-hole mount							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**ABB**	**Anderson**	**Dossert**	**Gedney**
ADR11-21	L2A-0	K2A25U	AU-0	–	–	–	–
ADR21-21	–	K2A28U	AU-2/0	–	–	–	–
ADR25-21	L2A-250	K2A29U	AU-250	–	–	–	–
ADR35-21	L2A-350	K2A31U	AU-350	–	–	–	–
ADR60-21	L2A-600	K2A36U	AU-600	–	–	–	–
ADR80-21	L2A-800	K2A40U	AU-800	–	–	–	–
Type ADR ALCÜL – Aluminum dual-rated connectors, three conductors, two-hole mount							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**ABB**	**Anderson**	**Dossert**	**Gedney**
ADR02-32	–	K3A20-2	T3A2-2	–	–	–	–
ADR11-32	–	K3A25U2	T3A2-0	–	–	–	–
ADR31-32	–	K3A27-2N	T3A2-3/0	–	–	–	–
ADR25-32	L3A-250-2	K3A29U-2N	T3A2-250	–	–	–	–
ADR35-32	L3A-350-2	K3A31U-2N	T3A2-350	–	–	–	–
ADR50-32	L3A-500-2	K3A36U-2N	T3A2-500	–	–	–	–
ADR60-32D	–	KK3A-36U-2N	T3A2-600N	–	–	–	–
ADR80-32	L3A-800-2	K3A40U-2N	T3A2-800N	–	–	–	–
ADR99-32	–	KK3A-44U2N	T3A2-1000N	–	–	–	–
Type ADR ALCÜL – Aluminum dual-rated connectors, four conductors, four-hole mount							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**ABB**	**Anderson**	**Dossert**	**Gedney**
ADR25-44	LA4M4-250	K4A29U-4N	T4A4-250N	–	–	–	–
ADR35-44	LA4M4-350	K4A31U-4N	T4A4-350N	–	–	–	–
ADR60-44D	LA4M4-600	KK4A36U-4N	T4A4-600N	–	–	–	–
ADR80-44D	LA4M4-800	KK4A40U-4N	T4A4-800N	–	–	–	–
Type ASL ALCÜL – Aluminum dual-rated connectors, two conductors, one-hole mount							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**ABB**	**Anderson**	**Dossert**	**Gedney**
ASL30-21	PB2-300	K11A30U	PB2300	–	–	–	–
Type ASL ALCÜL – Aluminum dual-rated connectors, two conductors, two-hole mount							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**ABB**	**Anderson**	**Dossert**	**Gedney**
ASL60-22	PB2-600	K11A-36U-2	–	–	–	–	–
ASL75-22	PB2-750	–	–	–	–	–	–

Competitive cross reference

Type ASL ALCÜL – Aluminum dual-rated panelboard lug, three conductors, two-hole mount							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**ABB**	**Anderson**	**Dossert**	**Gedney**
ASL60-32	–	K21A36U-2	PB3-600	–	–	–	–
Type ASR ALCÜL – Splice reducers with solid barrier wire stop							
Blackburn	**Penn Union**	**Burndy**	**Ilsco/Utilco**	**ABB**	**Anderson**	**Dossert**	**Gedney**
ASR0214	–	–	SPA-2	–	–	–	–
ASR1114	–	–	SPA-0	–	–	–	–
ASR2506	–	–	SPA-250	–	–	–	–
ASR3506	–	–	SPA-350	–	–	–	–
ASR7525	–	–	SPA-750	–	–	–	–

B

Color-Keyed® -
Compression connector systems

B

Color-Keyed -
Compression connector systems

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Overview
The Color-Keyed method is better

The Color-Keyed method of installing compression connectors on power cables is designed to provide a high degree of reliability in electrical wiring.

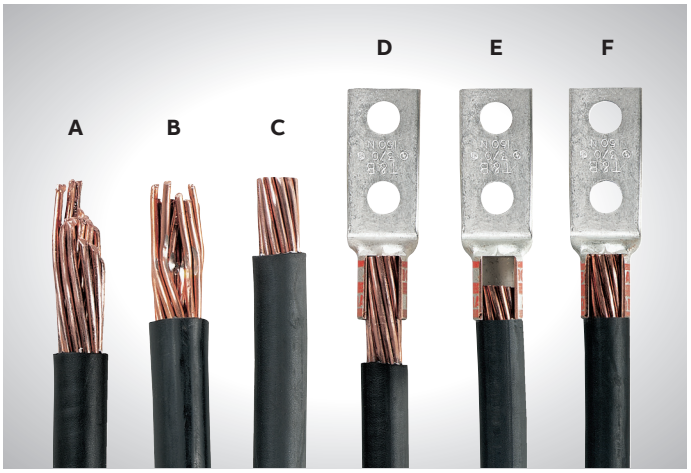
This method allows electrical workers to make installations with little effort and at a considerable savings in time. The benefit, of course, is a high-quality connection at a low installed cost.

Blackburn connectors featuring the Color-Keyed system are banded by colored stripes or engraving to indicate location of die on connector for compression. ABB uses full-width and half-width dies dependent on connector size and tool used.

Half-width dies are marked with the letter “H” after the die code number. Refer to the instruction sheet supplied with the connectors for information regarding strip length, die selection and number of compressions required.

Just four easy steps to a perfect connection!

01



02

01 Strip the insulation

02 Stripping types and conductor connections

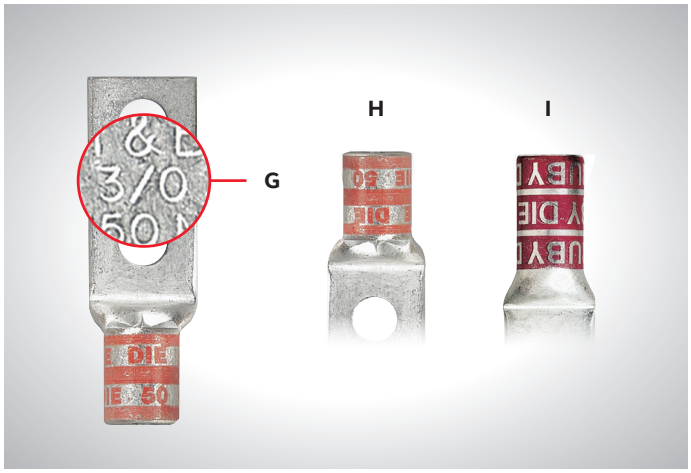
Step 1
Carefully strip the insulation on de-energized wires to avoid nicking or cutting conductors (wire brush if required).

Stripping types:
- **A** – Strand cut
- **B** – Nicked strands
- **C** – Good strip

Strip the insulation to the proper length so that conductors can be fully inserted into the connector barrel.

Conductor connections:
- **D** – Strip length too long
- **E** – Strip length too short
- **F** – Strip length just right

—
03



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04

—
* Aluminum lugs with a "9" indicate 90 °C rating
—
03 Select the connector for the cable size
—
04 Connector types and markings

Step 2
Determine the proper Color-Keyed connector for the cable size being used. Connectors are marked to show cable size and material:

- **G** – Cable size
- **H** – Copper (die located BETWEEN bands)
- **I** – Aluminum (die located ON bands)

Connector types:

- Connectors marked with just cable size or CU should be used on copper conductors only
- Connectors marked "AL9"* with the cable size should be used on aluminum conductors only
- Connectors marked "AL9CU" with the cable size may be used on aluminum or copper conductors

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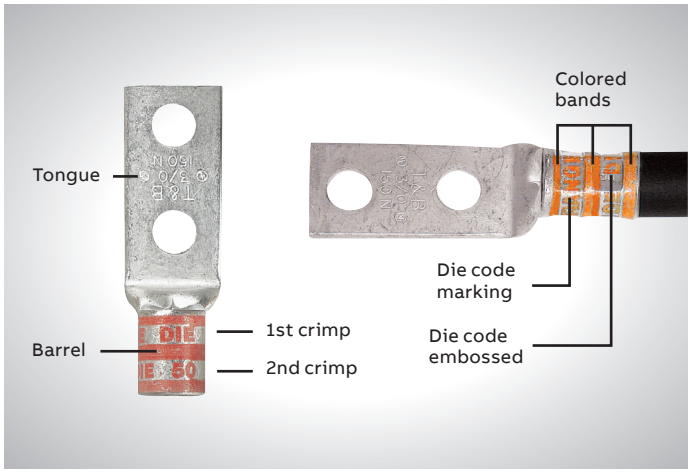
05



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06

—
05 Select the installing die
—
06 Color-Keyed bands and die location for compression

Step 3
Select the proper installing die and appropriate tool. Blackburn connectors featuring the Color-Keyed system have colored bands or colored dots that correspond to color markings on the dies.

Connectors and dies also have a die code number marked or stamped on them. Dies have a code number engraved in the crimp surface.

Step 4
Locate tool with correct die in proper position on connector and activate tool. When making multiple crimps, make the first crimp nearest the tongue and work towards the barrel end.

When properly crimped, the die code number will be embossed on the connector for easy inspection to determine if correct die and connector combination were used.

Overview
Precision dies for homogenous mass

The Color-Keyed method utilizing compression tools with matching dies forms the connector and conductor into a solid, homogenous mass to provide an optimum electrical bond between connector and conductor.

—
01 Locate tool with correct die in proper position on connector and activate tool.
—
02 Before compression, a typical cross section of cable and connector consists of about 75% metal and 25% air.
—
03 After air compression by the Color-Keyed method, the cross section looks like this, nearly 100% metal with virtually no air spaces.

Color-Keyed method dies are designed to produce a circumferential, hex- or diamond-shaped compression rather than a simple indent. Precision dies are an integral part of the ABB method. The precision hardened steel dies exert tremendous, controlled pressure on the connector and conductor. The dies compress the connector around the cable, converting the round strands to hexagonal or diamond shapes and forming the strands and connector into a solid mass. Each die is designed so that all conductors receive the same amount of compression force.

The circumferential compression creates a large area of high-pressure contact between cable and connector which, in turn, assures high conductivity, low resistance, and high pullout values which exceed UL requirements. These features result in a permanent, low installed cost connection. You can install it, and forget it.

The Color-Keyed system tells you where to place the installing die
Blackburn connectors featuring the Color-Keyed system not only identify the correct installing die to be used for positive compressions, but also indicate the proper placement of the die on the connector. This is done by the bands of color on the connector which match the color on the dies. Compression is made between or on these color bands. The color name is also spelled on the connector as an added means of identification.

Color-Keyed dies offer inspection capability
Dies that are used in Color-Keyed hand and hydraulic tools contain the “die code” numbers which are engraved on the compression surface of the die. Under compression, this number becomes embossed on the completed connection for inspection purposes. The inspector compares the die code number embossed on the connector with the die table to ensure that the proper connector was compressed with the correct die for that particular size conductor.

—
01

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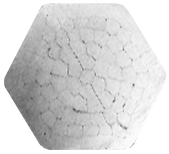
02



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03

Battpac® LT Pump
350 kcmil AL. The battery-powered hydraulic pump, rated for 10,000 psi. Portable power for all Color-Keyed hydraulic heads, using just one Ni-MH 24V rechargeable battery.

TBM62PCR-LI
Designed for one-handed control ram advancement and retraction. Capacity up to Cu #8-600 kcmil Al #8-400 kcmil.

TBM6S Hand-operated crimping tool features Shure-Stake mechanism to ensure a completed crimp. For connectors up to 500 kcmil Cu, 350 kcmil Al.

Quality tooling with the Shure-Stake® mechanism

Color-Keyed manual tools with the exclusive Shure-Stake mechanism take the guesswork out of making compression connections. The Shure-Stake mechanism provides a full cycle compression stroke every time. Once the stroke has started, the tool will not release the connector until the proper amount of force has been applied. This is your assurance of a fully compressed connection. ABB compression tools develop uniform, controlled pressure to each connector within their size range. Color-Keyed offers electric and battery-powered hydraulic pumps with a Shure-Stake feature that guarantees a full cycle compression.

Color-Keyed method components meet industry standards
Depending on the application, all Color-Keyed copper connectors meet UL Std. 486A for code stranded and 24 gauge flex, CSA Std. C22.2, No. 65 600 V requirements for power and UL Std. 467, CSA Std. 22.2 No. 0.4 requirements for direct buried grounding.

Color-Keyed method connectors are available in a range of sizes and styles to accommodate #8 AWG through 1000 kcmil and larger copper or 2000 kcmil and larger aluminum cable. They may be compressed
on cable with either manual or hydraulic tools. They are offered with standard length or long barrels, with one bolt or two bolt holes, or in two-way styles, for splicing applications. Two-way connectors are compact, providing high pullout values with low resistance.

Blackburn two-hole lugs featuring the Color-Keyed system are ideal for bus bar applications that require two bolts to prevent lug rotation. The Color-Keyed method is the most efficient, highest quality connection that has been engineered and delivers the best electrical performance and highest reliability.

Color-Keyed compression connectors eliminate risk of problems relating to loose connections when installed properly.

High-grade materials incorporated in Color-Keyed method
Low installed cost connections of superior quality can be achieved only through the use of high-grade components. That is an important part of the ABB method – quality products you can depend on.

Copper Blackburn connectors featuring the Color-Keyed system are made of high-conductivity wrought copper, and are electro tin plated to prevent corrosion and to improve conductivity. Color-Keyed Blackburn connectors featuring the Color- Keyed system offer the thickest tin plating in the industry. Other copper connectors for heavy-duty use and grid grounding applications are made of high-conductivity cast copper, bright finished.

High-conductivity cast aluminum connectors are available for heavy-duty application.

Overview

Special lugs – Angled, shaped and trimmed

ABB can solve your difficult wire bending and terminating problems in confined power distribution panels, switchgear and motor control enclosures.

—
01 Special lugs – Angled, shaped and trimmed
—
02 Examples of customized connectors for copper cables

We have the design and production capability to deliver exactly the type lug you need, shaped the way you need:
- Straight, 15°, 30°, 45°, 60° and 90° angle
- Stacking or non-stacking
- Narrow tongue or standard
- Tin, silver, lead, nickel

ABB offers an extensive line of copper Blackburn lugs featuring the Color-Keyed system for #8 AWG through 1000 kcmil flex and code cables. The lug tongues are modified in several different configurations to meet your exact needs: 45° and 90° bend angles, narrow tongues to fit into circuit breakers, offset tongues to stack two cables and special stud hole drilling.

These special configurations let you:
1) Run cable directly to the bus bar with no bending.
2) Terminate into very narrow spaces.
3) Utilize minimal bus bar space.

Customized connectors for copper cables
- Standard and special tongue angles, stacking and nonstacking, bolt holes sizes and centers, protective platings.
- Specially modified one- and two-hole copper compression lugs, series 54100, 54200, 54850BE and 54930BE for flex and code copper stranded cables. Material: high conductivity wrought copper.
- Minimum order quantity: Standard package quantity by cable size. Consult factory for price and delivery. All customized lugs are made to order. A.R.O. Non-cancelable.

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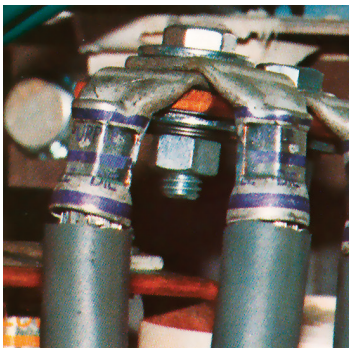
01



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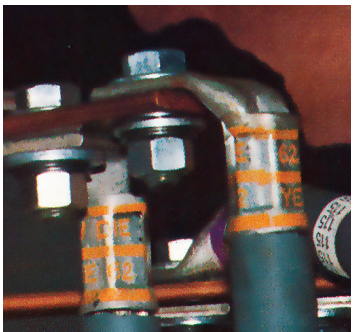
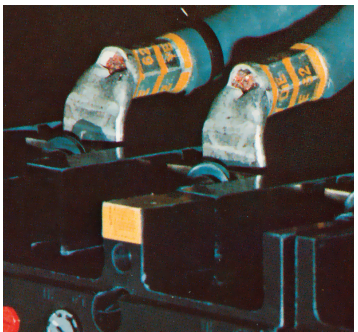




Overview
Order form

Order form (For 54100, 54200, 54800 and 54900 series copper lugs only):

Catalogue number: ☐ **Quantity:** ☐

Notes: ☐

Cable:

Code: ☐ **Weld:** ☐

#8 ☐ **#6** ☐ **#4** ☐ **#2** ☐ **#1** ☐ **1/0** ☐ **2/0** ☐ **3/0** ☐ **4/0** ☐

250 kcmil and up (code only) ☐

Notes:
1) Lack of any of the extra features on the "MADE-UP" catalogue number means that the standard cat. no. features are prevalent.

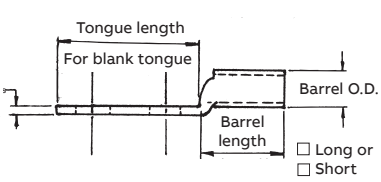
2) If either bolt hole size or distance between bolt holes needs to be changed from standard cat. no., both code numbers will appear on the "MADE-UP" cat. no. (See example below)

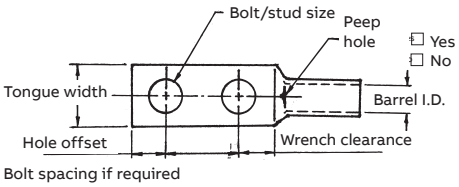
All "made-up" catalogue numbers start with a standard or basic catalogue number and are followed by the customer-required extra features: tongue shape, bolt hole size, distance between bolt holes, stacking, plating and inspection hole (peep hole). A code letter or a number has been assigned to each extra feature. See code table.

Code table

Tongue shape		Bolt holes			Bolt hole centers		Stacking		Finish (plating)		Inspection hole (long barrel)		Inspection hole (short barrel)	
Type	Code	Size	0.020 (in.)	Code	Distance 0.015 (in.)	Code	Type	Code	Type 1	Code	I.D.	Code	I.D.	Code
15°	UI	#8	0.173	02	½	08	Top	T**	Silver plate	SP	Peep hole	PH	Blind end	BE
30°	UT	#10	0.204	03	⅝	10	Bottom	B	Lead plate	LP				
45°	UF	¼	0.281	04	¾	12			Nickel plate	NP	150˚			
60°	US	5/16	0.344	05	⅞	14			Plain finish	PF				
90°	UB	⅜	0.406	06	1	16			No marking	NM				
Blank	BT	½	0.531	08	1⅛	18								
(No bolt hole)		⅝	0.656	10	1¼	20								
		¾	0.812	12	1⅜	22								
		⅞	0.937	14	1½	24								
		1	1.062	16	1⅝	26								
					1¾	28								
					1⅞*	30								
					2*	32								

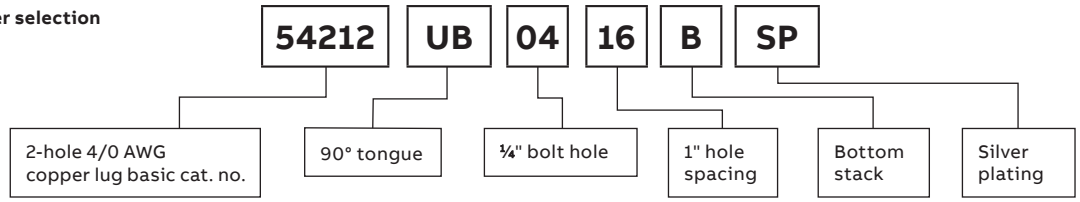
Diagrams





* These bolt centers not available for bolt holes larger than 13/16".
** Not required for 45° and 90° top stacking.

Catalogue number selection



Overview

Tongue specifications (see chart "A" for dimensions)

Stud sizes:

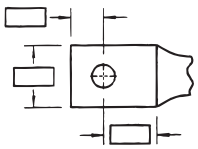
#8	#10	¼"	5/16"	⅜"	½"	⅝"	¾"	⅞"	1"
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Chart A

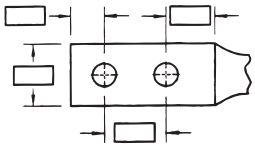
Nominal bolt hole size	0.015	Hole offset 0.030 (in.)	Wrench clearance min. (in.)	Tongue width cable size (in.)									
				#8 Code #8 Weld	#6 Code #6 Weld	#4 Code	#2 Code #4 Weld	#1 Code #2 Weld	1/0 Code #1 Weld	2/0 Code 1/0 Weld	3/0 Code 2/0 Weld	4/0 Code 3/0 Weld	250 Code
#8	0.173	0.200	0.240	0.406	0.437	0.562	0.593	0.672	0.750	0.825	0.937	1.030	1.125
#10	0.204	0.218	0.250	0.406	0.437	0.562	0.593	0.672	0.750	0.825	0.937	1.030	1.125
¼	0.281	0.250	0.312	0.469	0.500	0.562	0.593	0.672	0.750	0.825	0.937	1.030	1.125
5/16	0.344	0.375	0.406	0.562	0.562	0.562	0.675	0.672	0.750	0.825	0.937	1.030	1.125
⅜	0.406	0.375	0.440	0.578	0.578	0.594	0.675	0.672	0.750	0.825	0.937	1.030	1.125
½	0.531	0.500	0.562	–	–	–	0.750	0.750	0.750	0.825	0.937	1.030	1.125
⅝	0.656	0.625	0.875	–	–	–	–	–	–	–	0.937	1.030	1.125
¾	0.812	0.750	0.770	–	–	–	–	–	–	–	–	–	–
⅞*	0.937	0.875	0.890	–	–	–	–	–	–	–	–	–	–
1*	1.062	0.937	1.000	–	–	–	–	–	–	–	–	–	–

Diagrams

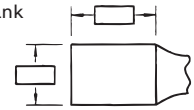
Single hole ☐



Double hole ☐



Blank ☐



* These bolt holes available in one-hole lug only.

Chart B

Cable size (AWG or kcmil)	Tongue thickness (in.)	Straight lug barrel length plus transition (in.)		Barrel (in.)		Dim "X" Stacked lugs (in.)			Dim "Y" (in.)		Dim "H" (in.)	
		Short	Long	O.D.	I.D.	Straight	45°	90°	Short	Long	Short	Long
#8	0.080	0.635	0.935	0.260	0.180	0.158	0.478	0.394	0.595	0.808	0.779	1.079
#6	0.081	0.675	0.975	0.296	0.215	0.134	0.544	0.432	0.587	0.799	0.767	1.067
#4	0.099	0.685	0.985	0.365	0.266	0.175	0.622	0.502	0.637	0.849	0.838	1.138
#2	0.108	0.815	1.115	0.410	0.302	0.216	0.649	0.535	0.711	0.923	0.958	1.258
#1	0.106	0.825	1.275	0.467	0.361	0.212	0.731	0.592	0.710	1.028	0.956	1.406
1/0	0.125	0.975	1.325	0.520	0.396	0.250	0.789	0.646	0.794	1.042	1.075	1.425
2/0	0.125	0.965	1.315	0.571	0.446	0.250	0.859	0.696	0.829	1.077	1.125	1.475
3/0	0.125	1.085	1.435	0.632	0.507	0.250	0.946	0.757	0.900	1.148	1.225	1.575
4/0	0.137	1.255	1.705	0.701	0.564	0.274	1.031	0.826	1.015	1.333	1.387	1.837
250	0.137	1.375	1.925	0.766	0.629	0.274	1.123	0.891	1.085	1.474	1.487	2.037
300	0.153	1.900	2.675	0.850	0.660	0.459	1.226	0.975	1.180	1.726	1.924	2.679
350	0.177	2.090	2.896	0.926	0.720	0.531	1.333	1.103	1.267	1.830	2.096	2.896
400	0.173	2.460	2.980	0.960	0.757	0.519	1.370	1.085	1.551	1.913	2.484	2.984
500	0.218	2.670	3.610	1.100	0.852	0.654	1.514	1.225	1.629	2.266	2.669	3.619
600	0.244	2.900	3.490	1.200	0.926	0.732	1.630	1.325	1.762	2.147	2.897	3.497
700	0.228	2.784	–	1.255	0.997	0.684	1.662	1.375	1.780	–	3.011	–
750	0.270	3.050	3.925	1.330	1.030	0.810	1.745	1.455	1.827	2.434	3.050	3.925
800	0.266	3.213	–	1.375	1.079	0.800	1.728	1.625	1.952	2.787	3.213	4.554
900	0.313	3.450	4.550	1.500	1.145	0.940	1.900	1.650	2.065	–	1.387	–
1,000	0.297	3.356	4.500	1.550	1.203	0.890	2.070	1.675	2.031	2.787	1.487	4.506

Note: Stacking lugs are available for one bolt only. Consult factory: straight: 700 kcmil & up – 45°: 400 kcmil & up, 90°: 500 kcmil & up.

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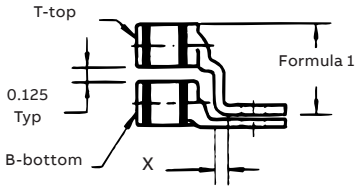
Chart C

	Tongue width 0.030 code cable size (in.)										
Bolt hole size	**300 kcmil 4/0 Weld**	**350 kcmil**	**400 kcmil**	**500 kcmil 400 Weld**	**600 kcmil 500 Weld**	**1325/24**	**700 kcmil**	**750 kcmil**	**800 kcmil**	**900 kcmil**	**1,000 kcmil**
#8	–	–	–	–	–	–	–	–	–	–	–
#10	–	–	–	–	–	–	–	–	–	–	–
1/4	1.250	1.355	1.410	1.605	1.745	1.805	1.840	1.935	2.010	2.180	2.265
5/16	1.250	1.355	1.410	1.605	1.745	1.805	1.840	1.935	2.010	2.180	2.265
3/8	1.250	1.355	1.410	1.605	1.745	1.805	1.840	1.935	2.010	2.180	2.265
1/2	1.250	1.355	1.410	1.605	1.745	1.805	1.840	1.935	2.010	2.180	2.265
5/8	1.250	1.355	1.410	1.605	1.745	1.805	1.840	1.935	2.010	2.180	2.265
3/4	1.250	1.355	1.410	1.605	1.745	1.805	1.840	1.935	2.010	2.180	2.265
7/8*	–	–	–	1.605	1.745	1.805	1.840	1.935	2.010	2.180	2.265
1*	–	–	–	–	1.745	1.805	1.840	1.935	2.010	2.180	2.265

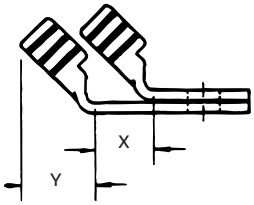
Diagrams

Formula 1 = (0.125 + 2 (O.D.) + 0.037 – Tongue thickness)

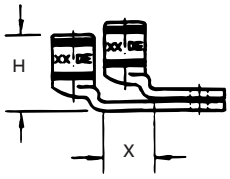
Straight stack



45° stack



90° stack



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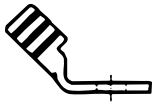

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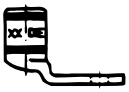


* These bolt holes available in one-hole lug only.

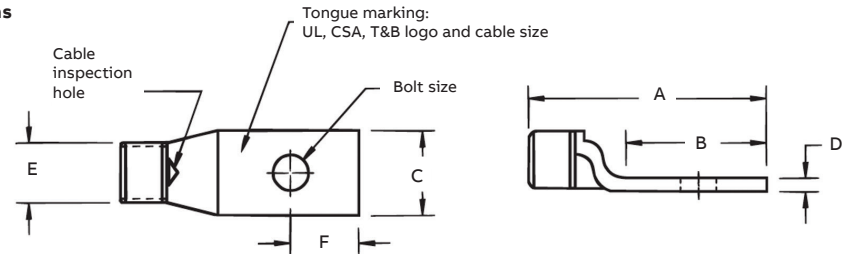
Compression connectors for copper conductors

Material – High-conductivity wrought copper
Finish – Electro tin plated

One-hole lugs – Standard barrel certified to 600 V and recommended up to 35 kV[¥]

Cat no.	Wire size: Code cable	Wire size: Flex cable classes G, H, I, K, M	Bolt size	Dimensions in. (mm): A	B	C	D	E	F	Die code	Colour code
54101	#14–10 AWG	–	¼	1.23 (31.2)	0.56 (14.2)	0.50 (12.7)	0.05 (1.3)	0.20 (5.1)	0.25 (6.4)	ERG2002	Yellow
256-30695-1351	#14–10 AWG		#8	1.36 (34.5)	0.68 (17.3)	0.36 (9.1)	0.05 (1.3)	0.20 (5.1)	0.25 (6.4)	ERG2002	
256-30695-1352	#14–10 AWG		¼	1.36 (34.5)	0.68 (17.3)	0.41 (10.4)	0.05 (1.3)	0.20 (5.1)	0.25 (6.4)	ERG2002	
256-30695-263	#14–10 AWG		¼	1.69 (43.0)	0.81 (20.6)	0.50 (12.7)	0.07 (1.8)	0.20 (5.1)	0.25 (6.4)	ERG2002	
54104	#8 AWG	#8 Str., 23 Navy #8 Weld 37/24 0.180	#10	1.16 (29.5)	0.50 (12.7)	0.39 (9.9)	0.08 (2.0)	0.25 (6.4)	0.22 (5.6)	21	Red
54130	#8 AWG		¼	1.20 (30.5)	0.61 (15.5)	0.45 (11.4)	0.07 (1.8)	0.25 (6.4)	0.25 (6.4)	21	
54131	#8 AWG		5/16	1.33 (33.8)	0.64 (16.3)	0.56 (14.2)	0.05 (1.3)	0.25 (6.4)	0.28 (7.1)	21	
54132	#8 AWG		⅜	1.33 (33.8)	0.64 (16.3)	0.56 (14.2)	0.05 (1.3)	0.25 (6.4)	0.28 (7.1)	21	
256-30695-424	#8 AWG		½	1.75 (44.5)	1.31 (33.3)	1.00 (25.4)	0.13 (3.3)	0.25 (6.4)	0.50 (12.7)	21	
256-30695-1361	#6 AWG	#6 Str., #30 Navy #6 Weld 61/24 133/0.014, 0.227	#12	1.23 (31.2)	0.53 (13.5)	0.44 (11.2)	0.07 (1.8)	0.31 (7.8)	0.22 (5.6)	24	Blue
54134	#6 AWG		#10	1.23 (31.2)	0.53 (13.5)	0.44 (11.2)	0.07 (1.8)	0.31 (7.8)	0.22 (5.6)	24	
54105	#6 AWG		¼	1.23 (31.2)	0.53 (13.5)	0.44 (11.2)	0.07 (1.8)	0.31 (7.8)	0.22 (5.6)	24	
54135	#6 AWG		5/16	1.41 (35.8)	0.67 (17.0)	0.60 (15.2)	0.07 (1.8)	0.31 (7.8)	0.31 (7.9)	24	
54136	#6 AWG		⅜	1.41 (35.8)	0.67 (17.0)	0.60 (15.2)	0.07 (1.8)	0.31 (7.8)	0.31 (7.9)	24	
256-30695-282	#6 AWG		⅜	1.41 (35.8)	0.75 (19.1)	0.56 (14.2)	0.06 (1.5)	0.31 (7.8)	0.31 (7.9)	24	
256-30695-422	#6 AWG		½	1.75 (44.5)	1.31 (33.3)	1.00 (25.4)	0.13 (3.3)	0.31 (7.8)	0.50 (12.7)	24	
256-30695-1362	#4 AWG	# 5 Str., 40-50 Navy 91/24 133/0.0177, 49/0.029 0.265	#12	1.38 (35.1)	0.60 (15.2)	0.55 (14.0)	0.09 (2.3)	0.37 (9.4)	0.25 (6.4)	29	Grey
54138	#4 AWG		#10	1.38 (35.1)	0.60 (15.2)	0.55 (14.0)	0.09 (2.3)	0.37 (9.4)	0.25 (6.4)	29	
54106	#4 AWG		¼	1.38 (35.1)	0.60 (15.2)	0.55 (14.0)	0.09 (2.3)	0.37 (9.4)	0.25 (6.4)	29	
54139	#4 AWG		5/16	1.42 (36.1)	0.66 (16.8)	0.61 (15.5)	0.07 (1.8)	0.37 (9.4)	0.31 (7.9)	29	
54140	#4 AWG		⅜	1.42 (36.1)	0.66 (16.8)	0.61 (15.5)	0.07 (1.8)	0.37 (9.4)	0.31 (7.9)	29	
256-30695-233	#4 AWG		⅜	1.56 (37.0)	0.75 (19.1)	0.59 (15.0)	0.06 (1.5)	0.37 (9.4)	0.31 (7.9)	29	
256-30695-264	#4 AWG		½	2.20 (56.0)	1.40 (35.6)	1.00 (25.4)	0.06 (1.5)	0.37 (9.4)	0.50 (12.7)	29	
54107	#2 AWG	#3 Str., #60 Navy 125/24 #4 Weld 0.300	¼	1.50 (38.1)	0.65 (16.5)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.25 (6.4)	33	Brown
54142-TB	#2 AWG		5/16	1.73 (43.9)	0.88 (22.4)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.38 (9.7)	33	
54143-TB	#2 AWG		⅜	1.65 (41.9)	0.80 (20.3)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.38 (9.7)	33	
54145-TB	#2 AWG		½	1.92 (48.8)	1.08 (27.4)	0.75 (19.1)	0.08 (2.0)	0.41 (10.4)	0.50 (12.7)	33	
54108	#1 AWG	#2 Str., 75 Navy, #2 Weld 150/24, 175/24 133/0.0223, 0.360	¼	1.50 (38.1)	0.65 (16.5)	0.68 (17.3)	0.11 (2.8)	0.47 (11.9)	0.25 (6.4)	37	Green
54147	#1 AWG		5/16	1.73 (43.9)	0.93 (23.6)	0.68 (17.3)	0.11 (2.8)	0.47 (11.9)	0.38 (9.7)	37	
54148	#1 AWG		⅜	1.78 (45.2)	0.98 (24.9)	0.68 (17.3)	0.11 (2.8)	0.47 (11.9)	0.38 (9.7)	37	
54150	#1 AWG		½	2.10 (53.3)	1.25 (31.8)	0.76 (19.3)	0.11 (2.8)	0.47 (11.9)	0.50 (12.7)	37	

Diagrams



[¥] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

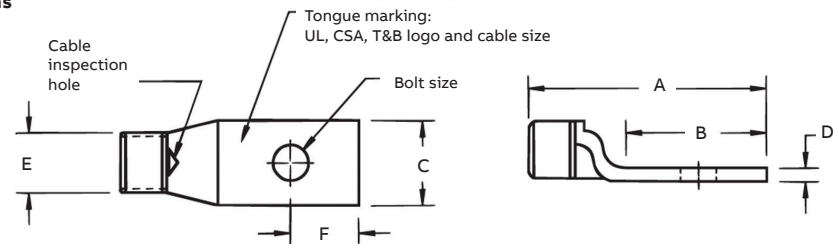
Compression connectors for copper conductors

Material – High-conductivity wrought copper
Finish – Electro tin plated

One-hole lugs – Standard barrel certified to 600 V and recommended up to 35 kV[v] (continued)

	Wire size			Dimensions in. (mm)							
Cat no.	Code cable	Flex cable classes G, H, I, K, M	Bolt size	A	B	C	D	E	F	Die code	Colour code
54152-TB	1/0 AWG	1 AWG, #100 Navy #1 Weld 225/24 133/0.0254, 0.389 min.	¼	1.60 (40.6)	0.65 (16.5)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.25 (6.4)	42	Pink
54153-TB	1/0 AWG		5/16	1.83 (46.5)	0.88 (22.4)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	42	
54109	1/0 AWG		⅜	1.88 (47.8)	0.93 (23.6)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	42	
54155-TB	1/0 AWG		½	2.20 (55.9)	1.25 (31.8)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.50 (12.7)	42	
256-30695-1383	1/0 AWG		⅝	2.54 (64.5)	1.50 (38.1)	0.88 (22.4)	0.13 (3.3)	0.52 (13.2)	0.63 (16.0)	42	
54157	2/0 AWG	1/0 AWG, 125 Navy 1/0 Weld 275/24 427/0.0155, 438 min. 133/0.0282	¼	1.65 (41.9)	0.65 (16.5)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.25 (6.4)	45	Black
54158	2/0 AWG		5/16	1.88 (47.8)	0.88 (22.4)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.38 (9.7)	45	
54110	2/0 AWG		⅜	1.93 (49.0)	0.93 (23.6)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.38 (9.7)	45	
54160	2/0 AWG		½	2.25 (57.2)	1.25 (31.6)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.50 (12.7)	45	
256-30695-131	2/0 AWG		⅝	2.56 (65.0)	1.50 (38.1)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.63 (16.0)	45	
54162-TB	3/0 AWG	2/0 AWG, 150 Navy 2/0 Weld, 325/24 133/0.0316, 259/0.0227 427/0.0177, 0.500	¼	1.75 (44.5)	0.65 (16.5)	0.92 (23.4)	0.13 (3.3)	0.63 (16.0)	0.25 (6.4)	50	Orange
54163-TB	3/0 AWG		5/16	1.98 (50.3)	0.88 (22.4)	0.92 (23.4)	0.13 (3.3)	0.63 (16.0)	0.38 (9.7)	50	
54111	3/0 AWG		⅜	2.03 (51.6)	0.93 (23.6)	0.92 (23.4)	0.13 (3.3)	0.63 (16.0)	0.38 (9.7)	50	
54165-TB	3/0 AWG		½	2.35 (59.7)	1.25 (31.8)	0.92 (23.4)	0.13 (3.3)	0.63 (16.0)	0.50 (12.7)	50	
54167	4/0 AWG	3/0 AWG, 200 Navy 3/0 Weld 450/24 703/0.0154, 0.560	¼	1.90 (48.3)	0.65 (16.5)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.25 (6.4)	54	Purple
54168	4/0 AWG		5/16	2.13 (54.1)	0.87 (22.1)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.38 (9.7)	54	
54112	4/0 AWG		⅜	2.18 (55.4)	0.93 (23.6)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.38 (9.7)	54	
54170	4/0 AWG		½	2.50 (63.5)	1.25 (31.8)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.50 (12.7)	54	
256-30695-1174	4/0 AWG		¾	2.86 (72.6)	1.56 (39.6)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.75 (19.1)	54	
58161	–	4/0 Weld 550/24 130/0.0399 259/0.0286 66	¼	2.23 (56.6)	0.78 (19.8)	1.25 (31.8)	0.15 (3.8)	0.79 (20.1)	0.38 (9.7)	62	Yellow
58162	–		5/16	2.33 (59.2)	0.88 (22.4)	1.25 (31.8)	0.15 (3.8)	0.79 (20.1)	0.38 (9.7)	62	
58163	–		⅜	2.38 (60.5)	0.93 (23.6)	1.25 (31.8)	0.15 (3.8)	0.79 (20.1)	0.38 (9.7)	62	
58165	–		½	2.76 (70.1)	1.25 (31.8)	1.25 (31.8)	0.15 (3.8)	0.79 (20.1)	0.50 (12.7)	62	
58166	–		⅝	3.03 (77.0)	1.58 (40.1)	1.25 (31.8)	0.15 (3.8)	0.79 (20.1)	0.83 (21.1)	62	
54172-TB	250 kcmil	4/0 250 Navy 0.629	¼	2.00 (50.8)	0.65 (16.5)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.50 (12.7)	62	
54173	250 kcmil		5/16	2.23 (56.6)	0.88 (22.4)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.38 (9.7)	62	
54174	250 kcmil		⅜	2.28 (57.9)	0.93 (23.6)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.38 (9.7)	62	
54113	250 kcmil		½	2.60 (66.0)	1.25 (31.8)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.50 (12.7)	62	

Diagrams



[v] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

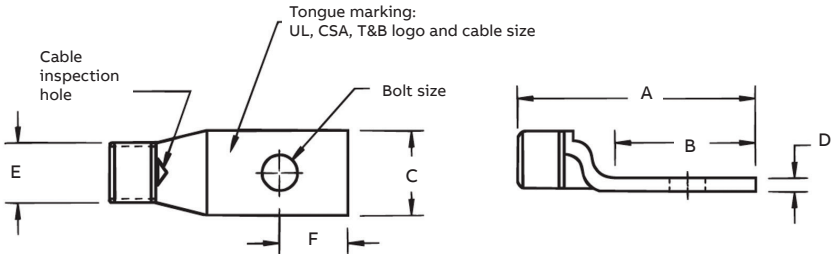
Compression connectors for copper conductors

Material – High-conductivity wrought copper
Finish – Electro tin plated

One-hole lugs – Standard barrel certified to 600 V and recommended up to 35 kV[¥] (continued)

	Wire size			Dimensions in. (mm)							
Cat no.	Code cable	Flex cable classes G, H, I, K, M	Bolt size	A	B	C	D	E	F	Die code	Colour code
58168	–	250 Weld 650/24 = 262 kcmil 259/0.0311, 703/0.0189	½	2.70 (68.6)	1.25 (31.8)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.50 (12.7)	66	White
54178	300 kcmil	250 kcmil 300 Navy 0.660	5/16	2.33 (59.2)	0.88 (22.4)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.38 (9.7)	66	
54179			⅜	2.43 (61.7)	0.93 (23.6)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.38 (9.7)	66	
54114			½	2.70 (68.6)	1.25 (31.8)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.50 (12.7)	66	
54181			⅝	3.03 (77.0)	1.58 (40.1)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.75 (19.1)	66	
58171	–	300 Weld, 259/0.034 427/0.0265, 889/0.0183 775/24 = 313 kcmil, 0.719	½	2.85 (72.4)	1.25 (31.8)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.50 (12.7)	71	Red
256-30695-112	350 kcmil	350 Navy 0.719	⅜	2.90 (73.7)	1.25 (31.8)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.50 (12.7)	71	
54115	350 kcmil		½	2.85 (72.4)	1.25 (31.8)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.50 (12.7)	71	
54183	350 kcmil		⅝	3.21 (81.5)	1.28 (32.5)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.75 (19.1)	71	
58174	–	350 Weld, 259/0.0368 427/0.0285 889/0.0201	½	3.35 (85.1)	1.25 (31.8)	1.61 (40.9)	0.22 (5.6)	1.09 (27.7)	0.50 (12.7)	76	Blue
54116	400 kcmil	300 kcmil, 400 Navy, 0.757	½	3.20 (81.3)	1.25 (31.8)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.50 (12.7)	76	
54185	400 kcmil		⅝	3.53 (89.7)	1.58 (40.1)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.75 (19.1)	76	
58177	–	400 Weld 925/24 = 373 kcmil 259/0.0393 or 427/0.0306, 0.799	½	3.31 (84.1)	1.25 (31.8)	1.61 (40.9)	0.22 (5.6)	1.04 (26.4)	0.50 (12.7)	80	–
256-30695-1403	–		⅜	3.31 (84.1)	1.31 (33.3)	1.61 (40.9)	0.22 (5.6)	1.04 (26.4)	0.63 (16.0)	80	
256-30695-339	500 kcmil	925/24 500 Navy 0.850	⅜	3.10 (78.7)	1.00 (25.4)	1.61 (40.9)	0.22 (5.6)	1.10 (28.0)	0.38 (9.7)	87	Brown
54118	500 kcmil		½	3.30 (83.8)	1.25 (31.8)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.50 (12.7)	87	
54187	500 kcmil		⅝	3.63 (92.2)	1.58 (40.1)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.63 (16.0)	87	
58180	–	1100/24 = 444 kcmil 500 Weld, 259/0.0417 427/0.0325, 703/0.0253	⅝	3.79 (96.3)	1.58 (40.1)	1.75 (44.5)	0.24 (6.1)	1.20 (30.5)	0.63 (16.0)	94	Green
256-30695-1370	600 kcmil	0.956	½	3.65 (92.7)	1.44 (36.6)	1.75 (44.5)	0.24 (6.1)	1.20 (30.5)	0.48 (12.2)	94	
54120	600 kcmil		⅝	3.79 (96.3)	1.58 (40.1)	1.75 (44.5)	0.24 (6.1)	1.20 (30.5)	0.63 (16.0)	94	

Diagram



[¥] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

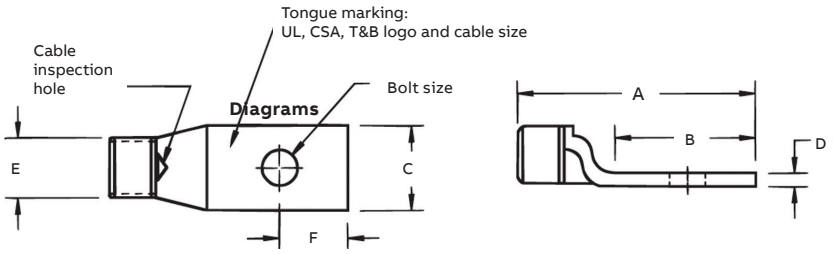
Compression connectors for copper conductors

Material – High-conductivity wrought copper
Finish – Electro tin plated

One-hole lugs – Standard barrel certified to 600 V and recommended up to 35 kV[x] (continued)

	Wire size			Dimensions in. (mm)							
Cat no.	Code cable	Flex cable classes G, H, I, K, M	Bolt size	A	B	C	D	E	F	Die code	Colour code
54122-TB	700 kcmil	–	⅝	3.68 (93.5)	1.58 (40.1)	1.84 (46.7)	0.23 (5.8)	1.26 (32.0)	0.63 (16.0)	99	Pink
256-30695-1404	–	1325/24 = 500/535 kcmil 427/0.0342, 0.968	⅜	3.29 (83.6)	1.29 (32.8)	1.81 (46.0)	0.28 (7.1)	1.25 (31.8)	0.66 (16.8)	99	
256-30695-1405	–		½	3.29 (83.6)	1.29 (32.8)	1.81 (46.0)	0.28 (7.1)	1.25 (31.8)	0.66 (16.8)	99	
256-30695-840	–		½	4.00 (101.6)	1.69 (42.9)	1.81 (46.0)	0.28 (7.1)	1.25 (31.8)	0.48 (12.2)	99	
58182	–		⅝	3.83 (97.3)	1.58 (40.1)	1.81 (46.0)	0.28 (7.1)	1.25 (31.8)	0.63 (16.0)	99	
256-30695-193	–	1.060	½	4.00 (101.6)	1,69 (42.9)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.48 (12.2)	106	Black
54123-TB	750 kcmil	1.060	⅝	3.87 (98.3)	1.58 (40.1)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.63 (16.0)	106	
58184	–	1600/24 = 646 kcmil	⅝	3.80 (96.5)	1.58 (40.1)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.63 (16.0)	106	
54124-TB	800 kcmil	800 Navy, 1.109	⅝	4.04 (102.6)	1.58 (40.1)	2.01 (51.1)	0.27 (6.9)	1.38 (35.1)	0.63 (16.0)	107	Orange
256-30695-843	900 kcmil	1925/24 = 750/777 kcmil, 1.187	½	4.31 (109.5)	1.81 (46.0)	2.17 (55.1)	0.31 (7.9)	1.50 (38.1)	0.88 (22.4)	115	Yellow
54126	900 kcmil		⅝	4.15 (105.4)	1.58 (40.1)	2.17 (55.1)	0.31 (7.9)	1.50 (38.1)	0.63 (16.0)	115	
54128	1,000 kcmil	1,000 Navy, 1.253	⅝	4.09 (103.9)	1.58 (40.1)	2.27 (57.7)	0.30 (7.6)	1.55 (39.4)	0.63 (16.0)	125	–

Diagram



[x] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

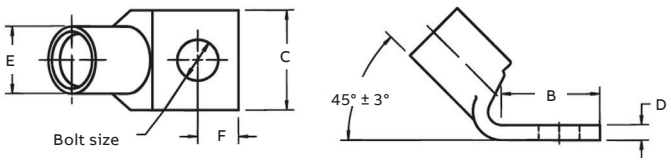
Compression connectors for copper conductors

Material – High-conductivity wrought copper
Finish – Electro tin plated

One-hole lugs – 45° Standard barrel certified to 600 V and recommended up to 35 kV[¥]

	Wire size			Dimensions in. (mm)						
Cat no.	Code cable	Flex cable classes G, H, I, K, M	Bolt size	B	C	D	E	F	Die code	Colour code
54104UF	#8 AWG	#8 Str., 23 Navy	#10	0.50 (12.7)	0.39 (9.9)	0.08 (2.0)	0.25 (6.4)	0.22 (5.6)	21	Red
54130UF	#8 AWG	#8 weld	¼	0.61 (15.5)	0.45 (11.4)	0.07 (1.8)	0.25 (6.4)	0.25 (6.4)	21	
54131UF	#8 AWG	37/24	5/16	0.64 (16.3)	0.56 (14.2)	0.05 (1.3)	0.25 (6.4)	0.28 (7.1)	21	
54132UF	#8 AWG	0.180	⅜	0.64 (16.3)	0.56 (14.2)	0.05 (1.3)	0.25 (6.4)	0.28 (7.1)	21	
54134UF	#6 AWG	#6 Str., 30 Navy	#10	0.53 (13.5)	0.44 (11.2)	0.07 (1.8)	0.31 (7.9)	0.22 (5.6)	24	Blue
54105UF	#6 AWG	#6 Weld	¼	0.53 (13.5)	0.44 (11.2)	0.07 (1.8)	0.31 (7.9)	0.22 (5.6)	24	
54135UF	#6 AWG	61/24 133/0.014	5/16	0.67 (17.0)	0.60 (15.2)	0.07 (1.8)	0.31 (7.9)	0.31 (7.8)	24	
54136UF	#6 AWG	0.227	⅜	0.67 (17.0)	0.60 (15.2)	0.07 (1.8)	0.31 (7.9)	0.31 (7.8)	24	
54138UF	#4 AWG	#5 Str., 40-50 Navy	#10	0.60 (15.2)	0.55 (14.0)	0.09 (2.3)	0.37 (9.4)	0.25 (6.4)	29	Grey
54106UF	#4 AWG	91/24 133/0.0177	¼	0.60 (15.2)	0.55 (14.0)	0.09 (2.3)	0.37 (9.4)	0.25 (6.4)	29	
54139UF	#4 AWG	49/0.029	5/16	0.66 (16.8)	0.61 (15.5)	0.07 (1.8)	0.37 (9.4)	0.31 (7.8)	29	
54140UF	#4 AWG	0.265	⅜	0.66 (16.8)	0.61 (15.5)	0.07 (1.8)	0.37 (9.4)	0.31 (7.8)	29	
256-30695-264UF	#4 AWG		½	1.40 (35.6)	1.00 (25.4)	0.06 (1.5)	0.37 (9.4)	0.50 (12.7)	29	
54107UF	#2 AWG	#3 Str.	¼	0.65 (16.5)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.25 (6.4)	33	Brown
54142UF	#2 AWG	60 Navy	5/16	0.88 (22.4)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.38 (9.7)	33	
54143UF	#2 AWG	125/24 #4 Weld	⅜	0.80 (20.3)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.38 (9.7)	33	
54145UF	#2 AWG	0.300	½	1.08 (27.4)	0.75 (19.1)	0.08 (2.0)	0.41 (10.4)	0.50 (12.7)	33	
54108UF	#1 AWG	#2 AWG, 75 Navy,	¼	0.65 (16.5)	0.68 (17.3)	0.11 (2.8)	0.47 (11.9)	0.25 (6.4)	37	Green
54147UF	#1 AWG	#2 Weld 150/24	5/16	0.93 (23.6)	0.68 (17.3)	0.11 (2.8)	0.47 (11.9)	0.38 (9.7)	37	
54148UF	#1 AWG	175/24 133/0.0223	⅜	0.98 (24.9)	0.68 (17.3)	0.11 (2.8)	0.47 (11.9)	0.38 (9.7)	37	
54150UF	#1 AWG	0.360	½	1.25 (31.8)	0.76 (19.3)	0.11 (2.8)	0.47 (11.9)	0.50 (12.7)	37	
54152UF	1/0 AWG	#1 AWG	¼	0.65 (16.5)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.25 (6.4)	42	Pink
54153UF	1/0 AWG	100 Navy, #1 Weld	5/16	0.88 (22.4)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	42	
54109UF	1/0 AWG	225/24 133/0.0254	⅜	0.93 (23.6)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	42	
54155UF	1/0 AWG	0.389	½	1.25 (31.8)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.50 (12.7)	42	
54157UF	2/0 AWG	1/0 AWG, 125 Navy	¼	0.65 (16.5)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.25 (6.4)	45	Black
54158UF	2/0 AWG	1/0 Weld	5/16	0.88 (22.4)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.38 (9.7)	45	
54110UF	2/0 AWG	275/24 427/0.0155,	⅜	0.93 (23.6)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.38 (9.7)	45	
54160UF	2/0 AWG	133/0.0282	½	1.25 (31.8)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.50 (12.7)	45	

Diagrams



[¥] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

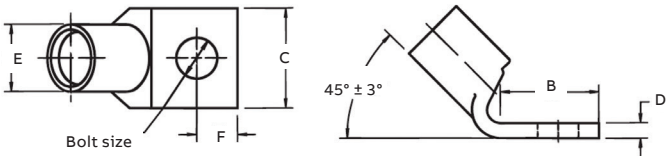
Compression connectors for copper conductors

Material – High-conductivity wrought copper
Finish – Electro tin plated

One-hole lugs – 45° Standard barrel certified to 600 V and recommended up to 35 kV[ɣ] (continued)

	Wire size			Dimensions in. (mm)						
Cat no.	Code cable	Flex cable classes G, H, I, K, M	Bolt size	B	C	D	E	F	Die code	Colour code
54162UF	3/0 AWG	2/0 AWG, 150 Navy	¼	0.65 (16.5)	0.92 (23.4)	0.13 (3.3)	0.63 (16.0)	0.25 (6.4)	50	Orange
54163UF	3/0 AWG	2/0 Weld, 325/24 133/0.0316, 259/0.0227	5/16	0.88 (22.4)	0.92 (23.4)	0.13 (3.3)	0.63 (16.0)	0.38 (9.7)	50	
54111UF	3/0 AWG	427/0.0177	⅜	0.93 (23.6)	0.92 (23.4)	0.13 (3.3)	0.63 (16.0)	0.38 (9.7)	50	
54165UF	3/0 AWG		½	1.25 (31.8)	0.92 (23.4)	0.13 (3.3)	0.63 (16.0)	0.50 (12.7)	50	
58147UF*	–	375/24	¼	0.78 (19.8)	1.03 (26.2)	0.16 (4.1)	0.70 (17.8)	0.34 (8.6)	50	
58148UF*	–		5/16	0.78 (19.8)	1.03 (26.2)	0.16 (4.1)	0.70 (17.8)	0.34 (8.6)	50	
58149UF*	–		⅜	0.81 (20.6)	1.03 (26.2)	0.16 (4.1)	0.70 (17.8)	0.38 (9.7)	50	
58151UF*	–		½	1.06 (26.9)	1.03 (26.2)	0.16 (4.1)	0.70 (17.8)	0.50 (12.7)	50	
54167UF	4/0 AWG	3/0 AWG	¼	0.65 (16.5)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.25 (6.4)	54	Purple
54168UF	4/0 AWG	200 Navy, 3/0 Weld 450/24	5/16	0.87 (22.1)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.38 (9.7)	54	
54112UF	4/0 AWG	703/0.0154	⅜	0.93 (23.6)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.38 (9.7)	54	
54170UF	4/0 AWG		½	1.25 (31.8)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.50 (12.7)	54	
58161UF	–	4/0 AWG, 4/0 Weld	¼	0.78 (19.8)	1.25 (31.8)	0.15 (3.8)	0.79 (20.1)	0.38 (9.7)	62	Yellow
58162UF	–	550/24 133/0.0399	5/16	0.88 (22.4)	1.25 (31.8)	0.15 (3.8)	0.79 (20.1)	0.38 (9.7)	62	
58163UF	–	259/0.0286	⅜	0.93 (23.6)	1.25 (31.8)	0.15 (3.8)	0.79 (20.1)	0.38 (9.7)	62	
58165UF	–	637/0.0183	½	1.25 (31.8)	1.25 (31.8)	0.15 (3.8)	0.79 (20.1)	0.50 (12.7)	62	
58166UF	–		⅝	1.58 (40.1)	1.25 (31.8)	0.15 (3.8)	0.79 (20.1)	0.63 (16.0)	62	
54172UF	250 kcmil	4/0 AWG	¼	0.65 (16.5)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.25 (6.4)	62	
54173UF	250 kcmil	250 Navy 550/24	5/16	0.88 (22.4)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.38 (9.7)	62	
54174UF	250 kcmil		⅜	0.93 (23.6)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.38 (9.7)	62	
54113UF	250 kcmil		½	1.25 (31.8)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.50 (12.7)	62	
58168UF	–	250 Weld, 650/24 259/0.0311, 703/0.0189	½	1.25 (31.8)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.50 (12.7)	66	White
54178UF	300 kcmil	250 kcmil	5/16	0.88 (22.4)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.38 (9.7)	66	
54179UF	300 kcmil	300 Navy 650/24	⅜	0.93 (23.6)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.38 (9.7)	66	
54114UF	300 kcmil		½	1.25 (31.8)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.50 (12.7)	66	
54181UF	300 kcmil		⅝	1.58 (40.1)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.63 (16.0)	66	

Diagrams



* Not CSA approved.
ɣ For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

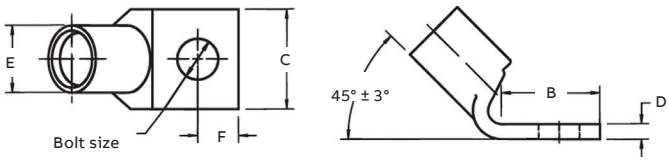
Compression connectors for copper conductors

Material – High-conductivity wrought copper
Finish – Electro tin plated

One-hole lugs – 45° Standard barrel certified to 600 V and recommended up to 35 kV[Y] (continued)

	Wire size			Dimensions in. (mm)						
Cat no.	Code cable	Flex cable classes G, H, I, K, M	Bolt size	B	C	D	E	F	Die code	Colour code
58171UF	–	300 kcmil, 300 Weld 259/0.034, 427/0.0265 889/0.0183 775/24 = 313 kcmil	½	1.25 (31.8)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.50 (12.7)	71	Red
256-30695-112UF	350 kcmil	650/24 350 Navy 262 kcmil	⅜	1.25 (31.8)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.50 (12.7)	71	
54115UF	350 kcmil		½	1.25 (31.8)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.50 (12.7)	71	
54183UF	350 kcmil		⅝	1.58 (40.1)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.63 (16.0)	71	
58174UF	–	350 Weld 259/0.0368, 427/0.0285 703/0.0224, 889/0.0201	½	1.25 (31.8)	1.61 (40.9)	0.22 (5.6)	1.09 (27.7)	0.50 (12.7)	76	Blue
54116UF	400 kcmil	300 kcmil, 400 Navy 775/24, 313 kmcil	½	1.25 (31.8)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.50 (12.7)	76	
54185UF	400 kcmil		⅝	1.58 (40.1)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.63 (16.0)	76	
256-30695-1403UF	–	350 kcmil, 400 Weld 925/24 = 373 kcmil	⅜	1.31 (28.7)	1.61 (40.9)	0.22 (5.6)	1.04 (26.4)	0.63 (16.0)	80	–
58177UF	–		½	1.25 (31.8)	1.61 (40.9)	0.22 (5.6)	1.04 (26.4)	0.50 (12.7)	80	
54118UF	500 kcmil	925/24 500 Navy 400 kcmil	½	1.25 (31.8)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.50 (12.7)	87	Brown
58187UF	500 kcmil		⅝	1.58 (40.1)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.63 (16.0)	87	
58180UF	–	1,100/24 = 444 kcmil 500 Weld, 259/0.0417 427/0.0325, 703/0.0253	⅝	1.58 (40.1)	1.75 (44.5)	0.24 (6.1)	1.20 (30.5)	0.50 (12.7)	94	Green
58120UF	600 kcmil	1,110/24 = 444 kcmil	⅝	1.58 (40.1)	1.75 (44.5)	0.24 (6.1)	1.20 (30.5)	0.50 (12.7)	94	
54122UF	700 kcmil	1325/24 = 500 kcmil	⅝	1.58 (40.1)	1.84 (46.7)	0.23 (5.8)	1.26 (32.0)	0.50 (12.7)	99	Pink
256-30695-840UF	–	1,325/24 = 535 kcmil 427/0.0342	½	1.69 (42.9)	1.81 (46.0)	0.28 (7.1)	1.25 (31.8)	0.81 (20.6)	99	
58182UF	–		⅝	1.58 (40.1)	1.81 (46.0)	0.28 (7.1)	1.25 (31.8)	0.63 (16.0)	99	
54123UF	750 kcmil	1,325/24 = 535 kcmil	⅝	1.58 (40.1)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.63 (16.0)	106	Black
58184UF	–	1,600/24 = 646 kcmil	⅝	1.58 (40.1)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.63 (16.0)	106	
54124UF	800 kcmil	800 Navy	⅝	1.58 (40.1)	2.01 (51.1)	0.27 (6.9)	1.38 (35.1)	0.63 (16.0)	107	Orange
54126UF	900 kcmil	1,925/24 = 777 kcmil	⅝	1.58 (40.1)	2.17 (55.1)	0.31 (7.9)	1.50 (38.1)	0.63 (16.0)	115	Yellow
54128UF	1,000 kcmil	1,000 Navy	⅝	1.58 (40.1)	2.27 (57.7)	0.30 (7.6)	1.55 (39.4)	0.63 (16.0)	125	–

Diagrams



[Y] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

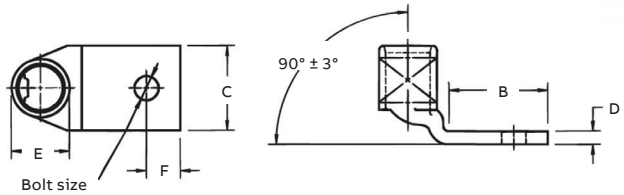
Compression connectors for copper conductors

Material – High-conductivity wrought copper
Finish – Electro tin plated

One-hole lugs – 90° Standard barrel certified to 600 V and recommended up to 35 kV[¥]

	Wire size			Dimensions in. (mm)						
Cat no.	Code cable	Flex cable classes G, H, I, K, M	Bolt size	B	C	D	E	F	Die code	Colour code
54104UB	#8 AWG	#8 Str.	#10	0.50 (12.7)	0.39 (9.9)	0.08 (2.0)	0.25 (6.4)	0.22 (5.6)	21	Red
54130UB	#8 AWG	23 Navy	¼	0.61 (15.5)	0.45 (11.4)	0.07 (1.8)	0.25 (6.4)	0.25 (6.4)	21	
54131UB	#8 AWG	#8 Weld 37/24	5/16	0.64 (16.3)	0.56 (14.2)	0.05 (1.3)	0.25 (6.4)	0.28 (7.1)	21	
54132UB	#8 AWG	0.180	⅜	0.64 (16.3)	0.56 (14.2)	0.05 (1.3)	0.25 (6.4)	0.28 (7.1)	21	
54134UB	#6 AWG	#6 AWG, 30 Navy	#10	0.53 (13.5)	0.44 (11.2)	0.07 (1.8)	0.31 (7.9)	0.22 (5.6)	24	Blue
54105UB	#6 AWG	#6 Weld 61/24	¼	0.53 (13.5)	0.44 (11.2)	0.07 (1.8)	0.31 (7.9)	0.22 (5.6)	24	
54135UB	#6 AWG	133/0.014	5/16	0.67 (17.0)	0.60 (15.2)	0.07 (1.8)	0.31 (7.9)	0.31 (7.8)	24	
54136UB	#6 AWG	0.227	⅜	0.67 (17.0)	0.60 (15.2)	0.07 (1.8)	0.31 (7.9)	0.31 (7.8)	24	
54138UB	#4 AWG	#5 AWG,	#10	0.60 (15.2)	0.55 (14.0)	0.09 (2.3)	0.37 (9.4)	0.25 (6.4)	29	Grey
54106UB	#4 AWG	40/50 Navy 91/24	¼	0.60 (15.2)	0.55 (14.0)	0.09 (2.3)	0.37 (9.4)	0.25 (6.4)	29	
54139UB	#4 AWG	133/0.0177	5/16	0.66 (16.8)	0.61 (15.5)	0.07 (1.8)	0.37 (9.4)	0.31 (7.8)	29	
54140UB	#4 AWG	49/0.029	⅜	0.66 (16.8)	0.61 (15.5)	0.07 (1.8)	0.37 (9.4)	0.31 (7.8)	29	
256-30695-264UB	#4 AWG	0.265	½	1.40 (35.6)	1.00 (25.4)	0.06 (1.5)	0.37 (9.4)	0.50 (12.7)	29	
54107UB	#2 AWG	#3 AWG	¼	0.65 (16.5)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.25 (6.4)	33	Brown
54142UB	#2 AWG	60 Navy 125/24	5/16	0.88 (22.4)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.38 (9.7)	33	
54143UB	#2 AWG	#4 Weld	⅜	0.80 (20.3)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.38 (9.7)	33	
54145UB	#2 AWG	0.300	½	1.08 (27.4)	0.75 (19.1)	0.08 (2.0)	0.41 (10.4)	0.50 (12.7)	33	
54108UB	#1 AWG	#2 AWG, 75 Navy, #2	¼	0.65 (16.5)	0.68 (17.3)	0.11 (2.8)	0.47 (11.9)	0.25 (6.4)	37	Green
54147UB	#1 AWG	Weld 150/24	5/16	0.93 (23.6)	0.68 (17.3)	0.11 (2.8)	0.47 (11.9)	0.38 (9.7)	37	
54148UB	#1 AWG	175/24	⅜	0.98 (24.9)	0.68 (17.3)	0.11 (2.8)	0.47 (11.9)	0.38 (9.7)	37	
54150UB	#1 AWG	133/0.0223 0.360	½	1.25 (31.8)	0.76 (19.3)	0.11 (2.8)	0.47 (11.9)	0.50 (12.7)	37	
54152UB	1/0 AWG	#1 AWG	¼	0.65 (16.5)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.25 (6.4)	42	Pink
54153UB	1/0 AWG	100 Navy, #1 Weld 225/24	5/16	0.88 (22.4)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	42	
54109UB	1/0 AWG	133/0.0254	⅜	0.93 (23.6)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	42	
54155UB	1/0 AWG	0.389	½	1.25 (31.8)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.50 (12.7)	42	
54157UB	2/0 AWG	1/0 AWG, 125 Navy	¼	0.65 (16.5)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.25 (6.4)	45	Black
54158UB	2/0 AWG	1/0 Weld 275/24	5/16	0.88 (22.4)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.38 (9.7)	45	
54110UB	2/0 AWG	427/0.0155,	⅜	0.93 (23.6)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.38 (9.7)	45	
54160UB	2/0 AWG	133/0.0282	½	1.25 (31.8)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.50 (12.7)	45	
54162UB	3/0 AWG	2/0 AWG, 150 Navy,	¼	0.65 (16.5)	0.92 (23.4)	0.13 (3.3)	0.63 (16.0)	0.25 (6.4)	50	Orange
54163UB	3/0 AWG	2/0 Weld 325/24	5/16	0.88 (22.4)	0.92 (23.4)	0.13 (3.3)	0.63 (16.0)	0.38 (9.7)	50	
54111UB	3/0 AWG	133/0.0316, 259/0.0227	⅜	0.93 (23.6)	0.92 (23.4)	0.13 (3.3)	0.63 (16.0)	0.38 (9.7)	50	
54165UB	3/0 AWG	427/0.0177	½	1.25 (31.8)	0.92 (23.4)	0.13 (3.3)	0.63 (16.0)	0.50 (12.7)	50	

Diagrams



[¥] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

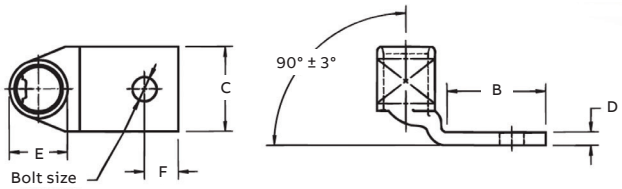
Compression connectors for copper conductors

Material – High-conductivity wrought copper
Finish – Electro tin plated

One-hole lugs – 90° Standard barrel certified to 600 V and recommended up to 35 kV[¥] (continued)

	Wire size			Dimensions in. (mm)						
Cat no.	Code cable	Flex cable classes G, H, I, K, M	Bolt size	B	C	D	E	F	Die code	Colour code
54167UB	–	3/0 AWG, 200 Navy, 3/0 Weld 450/24 703/0.0154	¼	0.65 (16.5)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.34 (8.6)	54	Purple
54168UB	–		5/16	0.87 (22.1)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.34 (8.6)	54	
54112UB	–		⅜	0.93 (23.6)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.38 (9.7)	54	
54170UB	–		½	1.25 (31.8)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.50 (12.7)	54	
58161UB	4/0 AWG	3/0 AWG, 4/0 Weld 550/24 133/0.0399 259/0.0286 637/0.0183	¼	0.78 (19.8)	1.25 (31.8)	0.15 (3.8)	0.79 (20.1)	0.38 (9.7)	62	Yellow
58162UB	4/0 AWG		5/16	0.88 (22.4)	1.25 (31.8)	0.15 (3.8)	0.79 (20.1)	0.38 (9.7)	62	
58163UB	4/0 AWG		⅜	0.93 (23.6)	1.25 (31.8)	0.15 (3.8)	0.79 (20.1)	0.38 (9.7)	62	
58165UB	4/0 AWG		½	1.25 (31.8)	1.25 (31.8)	0.15 (3.8)	0.79 (20.1)	0.50 (12.7)	62	
58166UB	4/0 AWG		⅝	1.58 (40.1)	1.25 (31.8)	0.15 (3.8)	0.79 (20.1)	0.63 (16.0)	62	
54172UB	250 kcmil	4/0 AWG 250 Navy 550/24	¼	0.65 (16.5)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.25 (6.4)	62	
54173UB	250 kcmil		5/16	0.88 (22.4)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.38 (9.7)	62	
54174UB	250 kcmil		⅜	0.93 (23.6)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.38 (9.7)	62	
54113UB	250 kcmil		½	1.25 (31.8)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.50 (12.7)	62	
58168UB	–	250 Weld 650/24 = 262 kcmil 259/0.0311, 703/0.0189	½	1.25 (31.8)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.50 (12.7)	66	White
54178UB	300 kcmil	250 kcmil 300 Navy 650/24	5/16	0.88 (22.4)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.38 (9.7)	66	
54179UB	300 kcmil		⅜	0.93 (23.6)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.38 (9.7)	66	
54114UB	300 kcmil		½	1.25 (31.8)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.50 (12.7)	66	
54181UB	300 kcmil		⅝	1.58 (40.1)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.63 (16.0)	66	
58171UB	–	300 Weld, 259/0.034 427/0.0265, 889/0.0183 775/24 = 313 kcmil	½	1.25 (31.8)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.50 (12.7)	71	Red
256-30695-112UB	350 kcmil	650/24, 350 Navy 262 kcmil	⅜	1.25 (31.8)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.50 (12.7)	71	
54115UB	350 kcmil		½	1.25 (31.8)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.50 (12.7)	71	
54183UB	350 kcmil		⅝	1.58 (40.1)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.63 (16.0)	71	
58174UB	–	350 Weld 259/0.0368, 427/0.0285 703/0.0224, 889/0.0201	½	1.25 (31.8)	1.61 (40.9)	0.22 (5.6)	1.09 (27.7)	0.50 (12.7)	76	Blue
54116UB	400 kcmil	300 kcmil, 400 Navy 775/24, 313 kcmil	½	1.25 (31.8)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.50 (12.7)	76	
54185UB	400 kcmil		⅝	1.58 (40.1)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.63 (16.0)	76	

Diagrams



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For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

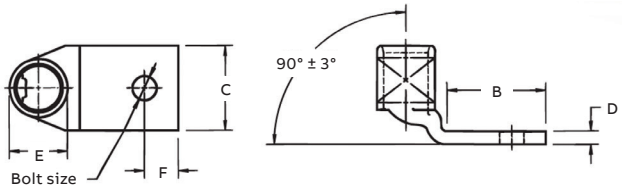
Compression connectors for copper conductors

Material – High-conductivity wrought copper
Finish – Electro tin plated

One-hole lugs – 90° Standard barrel certified to 600 V and recommended up to 35 kV[¥] (continued)

	Wire size			Dimensions in. (mm)						
Cat no.	Code cable	Flex cable classes G, H, I, K, M	Bolt size	B	C	D	E	F	Die code	Colour code
256-30695-1403UB	–	400 Weld 925/24 = 373 kcmil	⅜	1.31 (33.3)	1.61 (40.9)	0.22 (5.6)	1.04 (26.4)	0.63 (16.0)	80	–
58177UB	–	259/0.0393, 427/0.0306	½	1.25 (31.8)	1.61 (40.9)	0.22 (5.6)	1.04 (26.4)	0.50 (12.7)	80	
54118UB	500 kcmil	400 kcmil, 500 Navy 925/24	½	1.25 (31.8)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.50 (12.7)	87	Brown
54187UB	500 kcmil		⅝	1.58 (40.1)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.63 (16.0)	87	
58180UB	–	1,100/24 = 444 kcmil 500 Weld, 259/0.0417 427/0.0325, 703/0.0253	⅝	1.58 (40.1)	1.75 (44.5)	0.24 (6.1)	1.20 (30.5)	0.50 (12.7)	94	Green
54120UB	600 kcmil	1100/24 = 444 kcmil	⅝	1.58 (40.1)	1.75 (44.5)	0.24 (6.1)	1.20 (30.5)	0.50 (12.7)	94	
54122UB	700 kcmil	1,325/24, 535 kcmil 500 AWG, 550/535	⅝	1.58 (40.1)	1.84 (46.7)	0.23 (5.8)	1.26 (32.0)	0.50 (12.7)	99	Pink
256-30695-840UB	–	1,325/24 = 535 kcmil 427/0.0342	½	1.69 (42.9)	1.81 (46.0)	0.28 (7.1)	1.25 (31.8)	0.63 (16.0)	99	
58182UB	–		⅝	1.58 (40.1)	1.81 (46.0)	0.28 (7.1)	1.25 (31.8)	0.63 (16.0)	99	
54123UB	750 kcmil	–	⅝	1.58 (40.1)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.63 (16.0)	106	Black
58184UB	–	1,600/24 = 646 kcmil	⅝	1.58 (40.1)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.63 (16.0)	106	
54124UB	800 kcmil	800 Navy	⅝	1.58 (40.1)	2.01 (51.1)	0.27 (6.9)	1.38 (35.1)	0.63 (16.0)	107	Orange
54126UB	900 kcmil	1,925/24 = 777 kcmil	⅝	1.58 (40.1)	2.17 (55.1)	0.31 (7.9)	1.50 (38.1)	0.63 (16.0)	115	Yellow
54128UB	1,000 kcmil	1,000 Navy	⅝	1.58 (40.1)	2.27 (57.7)	0.30 (7.6)	1.55 (39.4)	0.63 (16.0)	125	–

Diagrams



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For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

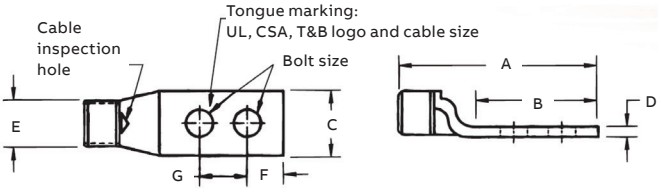
Compression connectors for copper conductors

Material – High-conductivity wrought copper
Finish – Electro tin plated

Two-hole lugs – Standard barrel certified to 600 V and recommended up to 35 kV¥

Cat no.	Wire size: Code cable	Wire size: Flex cable classes G, H, I, K, M	Bolt size	Dimensions in. (mm): A	B	C	D	E	F	G	Die code	Colour code
54201	#14–10 AWG	–	¼	1.86 (47.2)	1.19 (30.2)	0.50 (12.7)	0.05 (1.3)	0.20 (5.1)	0.25 (6.4)	0.63 (16.0)	ERG2002	Yellow
256-30695-1302	#14–10 AWG		⅜	2.48 (63.0)	1.81 (46.0)	0.56 (14.2)	0.04 (1.0)	0.22 (5.6)	0.38 (9.7)	1.00 (25.4)	ERG2002	
54204	#8 AWG	#8 AWG, 23 Navy #8 Weld 37/24	#10	1.88 (47.8)	1.18 (30.0)	0.42 (10.7)	0.08 (2.0)	0.26 (6.6)	0.25 (6.4)	0.63 (16.0)	21	Red
256-31426-33*	#8 AWG		#10	1.88 (47.8)	1.18 (30.0)	0.41 (10.4)	0.06 (1.5)	0.26 (6.6)	0.23 (5.8)	0.75 (19.0)	21	
256-31426-33PH	#8 AWG		#10	1.88 (47.8)	1.18 (30.0)	0.41 (10.4)	0.06 (1.5)	0.26 (6.6)	0.23 (5.8)	0.75 (19.0)	21	
542040410	#8 AWG		¼	2.01 (51.1)	1.31 (33.3)	0.42 (10.7)	0.08 (2.0)	0.26 (6.6)	0.25 (6.4)	0.63 (16.0)	21	
542040416	#8 AWG		¼	2.38 (60.5)	1.68 (42.7)	0.42 (10.7)	0.08 (2.0)	0.26 (6.6)	0.25 (6.4)	1.00 (25.4)	21	
256-30695-1094	#8 AWG		¼	2.50 (63.5)	1.81 (46.0)	0.56 (14.22)	0.05 (1.3)	0.26 (6.6)	0.25 (6.4)	0.75 (19.0)	21	
256-30695-251	#8 AWG		⅜	2.50 (63.5)	1.81 (46.0)	0.56 (14.22)	0.05 (1.3)	0.26 (6.6)	0.38 (9.7)	1.00 (25.4)	21	
256-30695-1070	#6 AWG	#6 AWG, 30 Navy #6 Weld 61/24 133/0.014	#12	1.81 (46.0)	1.19 (30.2)	0.44 (11.2)	0.11 (2.8)	0.30 (7.6)	0.25 (6.4)	0.50 – 0.63 (12.7 – 16.0)	24	Blue
256-30695-1153	#6 AWG		#10	1.98 (50.3)	1.28 (32.5)	0.44 (11.2)	0.08 (2.0)	0.30 (7.6)	0.25 (6.4)	0.50 (12.7)	24	
256-30695-1183	#6 AWG		#10	1.98 (50.3)	1.19 (30.2)	0.44 (11.2)	0.08 (2.0)	0.30 (7.6)	0.22 (5.6)	0.63 – 0.75 (16.0 – 19.0)	24	
54205	#6 AWG		¼	1.98 (50.3)	1.28 (32.5)	0.44 (11.2)	0.08 (2.0)	0.30 (7.6)	0.25 (6.4)	0.63 (16.0)	24	
256-30695-1095	#6 AWG		¼	2.13 (54.1)	1.31 (33.3)	0.43 (10.9)	0.08 (2.0)	0.30 (7.6)	0.25 (6.4)	0.75 (19.0)	24	
256-30695-252	#6 AWG		¼	2.38 (60.5)	1.63 (41.4)	0.43 (10.9)	0.08 (2.0)	0.30 (7.6)	0.25 (6.4)	1.00 (25.4)	24	
256-30695-372	#6 AWG		¼	2.13 (54.1)	1.43 (36.3)	0.43 (10.9)	0.08 (2.0)	0.30 (7.6)	0.25 (6.4)	0.75 (19.0)	24	
256-30695-913	#6 AWG		¼	2.38 (60.5)	1.75 (44.5)	0.43 (10.9)	0.08 (2.0)	0.30 (7.6)	0.25 (6.4)	1.00 (25.4)	24	
256-30695-253	#6 AWG		⅜	2.58 (65.3)	1.81 (45.9)	0.55 (14.0)	0.08 (2.0)	0.30 (7.6)	0.38 (9.7)	1.00 (25.4)	24	
54206	#4 AWG	#5 AWG 40-50 Navy 91/24 133/0.0177 49/0.029	¼	2.03 (51.6)	1.28 (32.5)	0.52 (13.2)	0.10 (2.5)	0.37 (9.4)	0.25 (6.4)	0.63 (16.0)	29	Grey
256-30695-1184	#4 AWG		5/16	2.31 (58.7)	1.63 (41.4)	0.52 (13.2)	0.10 (2.5)	0.37 (9.4)	0.31 (7.9)	1.00 (25.4)	29	
256-30695-255	#4 AWG		⅜	2.56 (65.0)	1.81 (45.9)	0.59 (15.0)	0.09 (2.3)	0.37 (9.4)	0.38 (9.7)	1.00 (25.4)	29	
54207	#2 AWG	#3 AWG 60 Navy 125/24, #4 Weld	¼	2.13 (54.1)	1.28 (32.5)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.25 (6.4)	0.63 (16.0)	33	Brown
256-30695-1355	#2 AWG		¼	2.15 (54.6)	1.31 (33.3)	0.59 (15.0)	0.13 (3.3)	0.41 (10.4)	0.25 (6.4)	0.75 (19.0)	33	
256-30695-1185	#2 AWG		¼	2.38 (60.5)	1.53 (38.9)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.25 (6.4)	1.00 (25.4)	33	
256-30695-257	#2 AWG		⅜	2.67 (67.8)	1.81 (45.9)	0.60 (15.2)	0.10 (2.5)	0.41 (10.4)	0.38 (9.7)	1.00 (25.4)	33	
256-30695-1049	#2 AWG		½	3.75 (95.3)	2.88 (73.2)	0.75 (19.1)	0.09 (2.3)	0.41 (10.4)	0.31 (7.9)	1.75 (44.5)	33	
54208	#1 AWG	#2 AWG, 75 Navy 150/24 175/24 133/0.0223	¼	2.13 (54.1)	1.28 (32.5)	0.68 (17.3)	0.11 (2.8)	0.47 (11.9)	0.25 (6.4)	0.63 (16.0)	37	Green
256-30695-1233	#1 AWG		5/16	2.69 (68.3)	1.62 (41.2)	0.69 (17.5)	0.13 (3.3)	0.47 (11.9)	0.34 (8.6)	1.00 (25.4)	37	
256-30695-1236	#1 AWG		⅜	2.75 (69.9)	1.81 (45.9)	0.68 (17.3)	0.11 (2.8)	0.47 (11.9)	0.38 (9.7)	1.00 (25.4)	37	

Diagrams



* Blind end
¥ For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

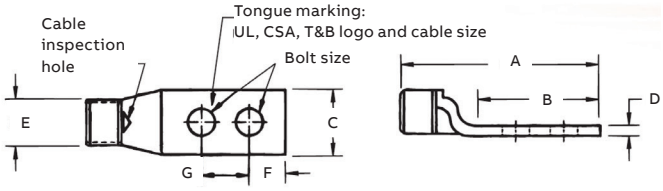
Compression connectors for copper conductors

Material – High-conductivity wrought copper
Finish – Electro tin plated

Two-hole lugs – Standard barrel certified to 600 V and recommended up to 35 kV[x] (continued)

	Wire size			Dimensions in. (mm)								
Cat no.	Code cable	Flex cable classes G, H, I, K, M	Bolt size	A	B	C	D	E	F	G	Die code	Colour code
256-30695-329	1/0 AWG	#1 AWG	¼	2.75 (69.9)	1.81 (45.9)	0.75 (19.1)	0.14 (3.6)	0.52 (13.2)	0.38 (9.7)	0.75 (19.4)	42	Pink
54255	1/0 AWG	100 Navy, #1 Weld 225/24 133/0.0254	5/16	2.56 (65.0)	1.56 (39.6)	0.75 (19.1)	0.14 (3.6)	0.52 (13.2)	0.38 (9.7)	0.88 (22.4)	42	
256-30695-1234	1/0 AWG		5/16	2.75 (69.9)	1.78 (45.2)	0.75 (19.1)	0.14 (3.6)	0.52 (13.2)	0.33 (8.4)	1.00 (25.4)	42	
54209	1/0 AWG		⅜	2.88 (73.2)	1.93 (49.0)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	1.00 (25.4)	42	
256-30695-1265	1/0 AWG		⅜	3.50 (89.0)	2.57 (65.3)	0.75 (19.1)	0.14 (3.6)	0.52 (13.2)	0.38 (9.7)	1.75 (44.5)	42	
256-30695-886	1/0 AWG		½	3.78 (96.0)	2.83 (71.2)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.5 (12.7)	1.75 (44.5)	42	
256-30695-1175	2/0 AWG	1/0 AWG, 125 Navy 1/0 Weld 275/24 133/0.0282	¼	2.45 (6.2)	1.44 (36.6)	0.83 (21.1)	0.14 (3.6)	0.57 (14.5)	0.25 (6.4)	0.75 (19.0)	45	Black
54261	2/0 AWG		5/16	2.70 (68.6)	1.63 (41.4)	0.83 (21.1)	0.14 (3.6)	0.57 (14.5)	0.33 (8.4)	0.88 (22.4)	45	
256-30695-832	2/0 AWG		5/16	2.88 (73.2)	1.81 (45.9)	0.81 (20.6)	0.14 (3.6)	0.57 (14.5)	0.38 (9.7)	1.00 (25.4)	45	
54210	2/0 AWG		⅜	2.93 (74.4)	1.93 (49.0)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.38 (9.7)	1.00 (25.4)	45	
54260	2/0 AWG		½	3.83 (97.3)	2.81 (71.4)	0.83 (21.1)	0.14 (3.6)	0.57 (14.5)	0.38 (9.7)	1.75 (44.5)	45	
54266	3/0 AWG	150 Navy, 2/0 Weld 2/0 AWG, 325/24 133/0.0316 259/0.0227 427/0.0177	5/16	2.88 (73.2)	1.75 (44.5)	0.94 (23.9)	0.14 (3.6)	0.63 (16.0)	0.33 (8.4)	1.00 (25.4)	50	Orange
54211	3/0 AWG		⅜	2.94 (74.7)	1.81 (46.0)	0.94 (23.9)	0.14 (3.6)	0.63 (16.0)	0.38 (9.7)	1.00 (25.4)	50	
54265	3/0 AWG		½	3.94 (100.1)	2.81 (71.4)	0.94 (23.9)	0.14 (3.6)	0.63 (16.0)	0.50 (12.7)	1.75 (44.5)	50	
54212	4/0 AWG	3/0 AWG, 200 Navy 3/0 Weld 450/24 = 182 kcmil 703/0.0154	⅜	3.18 (80.8)	1.93 (49.0)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.38 (9.7)	1.00 (25.4)	54	Purple
54270	4/0 AWG		½	4.25 (108.0)	3.00 (76.2)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.50 (12.7)	1.75 (44.5)	54	
256-30695-1247	4/0 AWG		¼	3.06 (77.7)	1.44 (36.6)	1.03 (26.2)	0.16 (4.1)	0.70 (17.8)	0.38 (9.7)	0.63 (16.0)	54	
256-30695-331	4/0 AWG		¼	3.06 (77.7)	1.81 (46.0)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.38 (9.7)	0.75 (19.1)	54	
256-30695-1261	4/0 AWG		5/16	3.18 (80.8)	1.93 (49.0)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.38 (9.7)	1.00 (25.4)	54	
54213	250 kcmil	4/0 AWG 250 Navy	⅜	3.28 (83.3)	1.93 (49.0)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.38 (9.7)	1.00 (25.4)	62	Yellow
54275	250 kcmil		½	4.19 (106.4)	2.81 (71.4)	1.13 (28.7)	0.18 (4.6)	0.77 (19.6)	0.50 (12.7)	1.75 (44.5)	62	
256-30695-345	–	4/0 AWG, 4/0 Weld 550/24 = 222 kcmil 133/0.0399 259/0.0286 637/0.018	⅜	3.25 (82.6)	1.69 (42.9)	1.25 (31.8)	0.15 (3.8)	0.79 (20.1)	0.38 (9.7)	0.88 (22.4)	62	
256-30695-835	–		⅜	4.25 (108.0)	2.80 (71.1)	1.25 (31.8)	0.15 (3.8)	0.79 (20.1)	0.38 (9.7)	1.00 (25.4)	62	
256-30695-452	–		⅜	3.13 (79.5)	1.88 (47.8)	1.25 (31.8)	0.16 (4.1)	0.79 (20.1)	0.38 (9.7)	0.88 (22.4)	62	
58265	–		½	3.94 (100.1)	2.81 (71.4)	0.94 (23.9)	0.14 (3.6)	0.79 (20.1)	0.50 (12.7)	1.75 (44.5)	62	
54214	300 kcmil	250 AWG, 300 Navy 650/24 = 262 kcmil	⅜	3.45 (87.6)	1.93 (49.0)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.38 (9.7)	1.00 (25.4)	66	White
54280	300 kcmil		½	4.45 (113.0)	3.00 (76.2)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.50 (12.7)	1.75 (44.5)	66	
256-30695-332	350 kcmil	350 Navy	¼	3.40 (86.4)	1.81 (46.0)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.38 (9.7)	0.75 (19.1)	71	Red
256-30695-1240	350 kcmil		5/16	4.18 (106.2)	2.63 (66.8)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.38 (9.7)	1.75 (44.5)	71	
54215	350 kcmil		⅜	3.51 (89.2)	1.93 (49.0)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.38 (9.7)	1.00 (25.4)	71	
54282	350 kcmil		½	4.60 (116.8)	3.00 (76.2)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.50 (12.7)	1.75 (44.5)	71	

Diagrams



[x] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

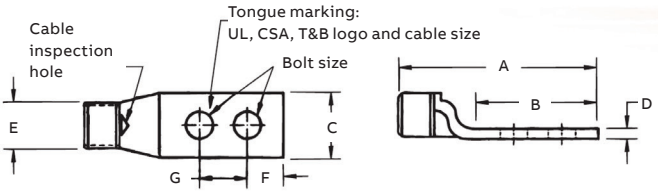
Compression connectors for copper conductors

Material – High-conductivity wrought copper
Finish – Electro tin plated

Two-hole lugs – Standard barrel certified to 600 V and recommended up to 35 kV[x] (continued)

	Wire size			Dimensions in. (mm)								
Cat no.	Code cable	Flex cable classes G, H, I, K, M	Bolt size	A	B	C	D	E	F	G	Die code	Colour code
54216	400 kcmil	300 kcmil, 313 kcmil 775/24	⅜	3.93 (99.8)	1.93 (49.0)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.38 (9.7)	1.00 (25.4)	76	Blue
54283	400 kcmil		⅜	3.88 (98.6)	1.93 (49.0)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.38 (9.7)	1.06 (26.9)	76	
256-30695-439	–	400 Weld 925/24 = 373 kcmil 259/0.0393 427/0.0306	⅜	4.35 (110.5)	2.25 (57.2)	1.61 (40.9)	0.22 (5.6)	1.04 (26.4)	0.50 (12.7)	1.00 (25.4)	80	–
58277	–		½	5.06 (128.5)	3.00 (76.2)	1.61 (40.9)	0.22 (5.6)	1.04 (26.4)	0.50 (12.7)	1.75 (44.5)	80	
256-30695-839	–		⅜	4.09 (103.9)	2.06 (52.3)	1.61 (40.9)	0.22 (5.6)	1.04 (26.4)	0.50 (12.7)	1.00 (25.4)	80	
54218	500 kcmil	400 kcmil 500 Navy	⅜	3.96 (100.6)	1.93 (49.0)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.38 (9.7)	1.00 (25.4)	87	Brown
54286	500 kcmil		½	5.07 (128.8)	3.00 (76.2)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.50 (12.7)	1.75 (44.5)	87	
256-30695-188	500 kcmil		½	4.06 (103.1)	2.31 (58.7)	1.63 (41.4)	0.22 (5.6)	1.10 (27.9)	0.50 (12.7)	1.25 (31.8)	87	
54220	600 kcmil	–	⅜	4.13 (104.9)	1.93 (49.0)	1.75 (44.5)	0.24 (6.1)	1.20 (30.5)	0.38 (9.7)	1.00 (25.4)	94	Green
54289	600 kcmil		½	5.23 (132.8)	3.00 (76.2)	1.75 (44.5)	0.24 (6.1)	1.20 (30.5)	0.50 (12.7)	1.75 (44.5)	94	
256-30695-1406	700 kcmil	550/535 1,325/24 500 AWG	⅜	4.05 (102.9)	2.11 (53.6)	1.78 (45.2)	0.24 (6.1)	1.25 (31.8)	0.50 (12.7)	1.00 (25.4)	99	Pink
256-30695-842	700 kcmil		⅜	4.30 (109.2)	2.06 (52.3)	1.80 (45.7)	0.28 (7.1)	1.25 (31.8)	0.50 (12.7)	1.00 (25.4)	99	
256-30695-898	700 kcmil		⅜	4.30 (109.2)	2.06 (52.3)	1.80 (45.7)	0.28 (7.1)	1.25 (31.8)	0.50 (12.7)	1.00 (25.4)	99	
54291	700 kcmil		½	5.18 (131.6)	3.00 (76.2)	1.84 (46.7)	0.23 (5.8)	1.25 (31.8)	0.50 (12.7)	1.75 (44.5)	99	
58281	700 kcmil	1,325/24 = 535 kcmil	½	5.23 (132.8)	3.00 (76.2)	1.80 (45.7)	0.28 (7.1)	1.25 (31.8)	0.50 (12.7)	1.75 (44.5)	99	
256-30695-237	750 kcmil	–	⅜	5.10 (129.5)	2.80 (71.1)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.38 (9.7)	1.00 (25.4)	106	Black
54223	750 kcmil		½	5.32 (135.1)	3.00 (76.2)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.50 (12.7)	1.75 (44.5)	106	
256-30695-1376	800 kcmil	–	⅜	4.78 (121.4)	2.28 (57.9)	2.01 (51.1)	0.27 (6.9)	1.38 (35.1)	0.44 (11.2)	1.13 (28.7)	107	Orange
54224	800 kcmil		½	5.50 (139.7)	3.00 (76.2)	2.01 (51.1)	0.27 (6.9)	1.38 (35.1)	0.50 (12.7)	1.75 (44.5)	107	
256-30695-694	900 kcmil	1,925/24 = 777 kcmil	⅜	4.65 (118.1)	2.06 (52.3)	2.18 (55.4)	0.31 (7.9)	1.50 (38.1)	0.50 (12.7)	1.00 (25.4)	115	Yellow
54226	900 kcmil		½	5.59 (142.0)	3.00 (76.2)	2.18 (55.4)	0.31 (7.9)	1.50 (38.1)	0.50 (12.7)	1.75 (44.5)	115	
256-30695-846	900 kcmil		⅜	4.60 (116.8)	2.06 (52.3)	2.12 (53.9)	0.31 (7.9)	1.50 (38.1)	0.50 (12.7)	1.00 (25.4)	115	
256-30695-844	900 kcmil		⅝	5.00 (127.0)	2.63 (66.8)	2.18 (55.4)	0.31 (7.9)	1.50 (38.1)	0.56 (14.2)	1.50 (38.1)	115	
54228	1,000 kcmil	1,000 Navy	½	5.45 (138.4)	3.00 (76.2)	2.27 (57.7)	0.30 (7.6)	1.55 (39.4)	0.50 (12.7)	1.75 (44.5)	125	–

Diagrams



[x] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

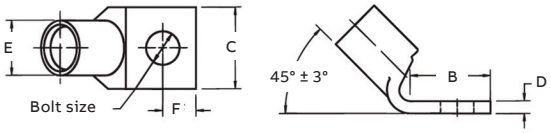
Compression connectors for copper conductors

Material – High-conductivity wrought copper
Finish – Electro tin plated

Two-hole lugs – 45° Standard barrel certified to 600 V and recommended up to 35 kV[¥]

	Wire size			Dimensions in. (mm)							
Cat no.	Code cable	Flex cable classes G, H, I, K, M	Bolt size	B	C	D	E	F	G	Die code	Colour code
256-31426-9	#14–10 AWG	–	#10	1.22 (31.0)	0.37 (9.4)	0.05 (1.3)	0.20 (5.1)	0.25 (6.4)	0.63 (16.0)	–	–
54204UF	#8 AWG	#8 AWG, 23 Navy #8 Weld, 37/24	#10	1.18 (30.0)	0.42 (10.7)	0.08 (2.0)	0.26 (6.6)	0.25 (6.4)	0.63 (16.0)	21	Red
256-30695-1183UF	#6 AWG	#6 AWG, 30 Navy #6 Weld 61/24 133/0.014	#10	1.19 (30.2)	0.44 (11.2)	0.08 (2.0)	0.30 (7.6)	0.22 (5.6)	0.63 – 0.75 (16.0) – (19.1)	24	Blue
54205UF	#6 AWG		¼	1.28 (32.5)	0.44 (11.2)	0.08 (2.0)	0.30 (7.6)	0.25 (6.4)	0.63 (16.0)	24	
54205UF0416	#6 AWG		¼	1.56 (39.6)	0.43 (10.9)	0.08 (2.0)	0.30 (7.6)	0.25 (6.4)	1.00 (25.4)	24	
54206UF	#4 AWG	#5 AWG 40-50 Navy, 91/24 133/0.0177 49/0.029	¼	1.28 (32.5)	0.52 (13.2)	0.10 (2.5)	0.37 (9.4)	0.25 (6.4)	0.63 (16.0)	29	Grey
54207UF	#2 AWG	#3 AWG 60 Navy, #4 Weld 125/24	¼	1.28 (32.5)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.25 (6.4)	0.63 (16.0)	33	Brown
256-30695-257UF	#2 AWG		⅜	1.81 (46.0)	0.60 (15.2)	0.11 (2.8)	0.41 (10.4)	0.38 (9.7)	1.00 (25.4)	33	
54208UF	#1 AWG	#2 AWG, 75 Navy 150/24, 175/24 133/0.0223	¼	1.28 (32.5)	0.68 (17.3)	0.11 (2.8)	0.47 (11.9)	0.25 (6.4)	0.63 (16.0)	37	Green
54209UF	1/0 AWG	#1 AWG 100 Navy, #1 Weld 225/24 133/0.0254	⅜	1.93 (49.0)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	1.00 (25.4)	42	Pink
54209UF0412	1/0 AWG		¼	1.55 (39.4)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.25 (6.4)	0.75 (19.1)	42	
54261UF	2/0 AWG	1/0 AWG, 125 Navy 1/0 Weld 275/24 133/0.0282	5/16	1.63 (41.4)	0.83 (21.1)	0.14 (3.6)	0.57 (14.5)	0.33 (8.4)	0.88 (22.4)	45	Black
54210UF	2/0 AWG		⅜	1.93 (49.0)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.38 (9.7)	1.00 (25.4)	45	
54260UF	2/0 AWG		½	2.81 (71.4)	0.83 (21.1)	0.14 (3.6)	0.57 (14.5)	0.38 (9.7)	1.75 (44.5)	45	
54266UF	3/0 AWG	2/0 AWG, 150 Navy 2/0 Weld, 325/24 133/0.0316 259/0.0227 427/0.0177	5/16	1.75 (44.5)	0.94 (23.9)	0.14 (3.6)	0.63 (16.0)	0.33 (8.4)	1.00 (25.4)	50	Orange
54211UF	3/0 AWG		⅜	1.81 (46.0)	0.94 (23.9)	0.14 (3.6)	0.63 (16.0)	0.38 (9.7)	1.00 (25.4)	50	
54265UF	3/0 AWG		½	2.81 (71.4)	0.94 (23.9)	0.14 (3.6)	0.63 (16.0)	0.25 (6.4)	1.75 (44.5)	50	
54212UF	4/0 AWG	200 Navy, 3/0 AWG 3/0 Weld 450/24, 703/0.0154	⅜	1.93 (49.0)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.38 (9.7)	1.00 (25.4)	54	Purple
54270UF	4/0 AWG		½	3.00 (76.2)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.25 (6.4)	1.75 (44.5)	54	

Diagrams



[¥] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

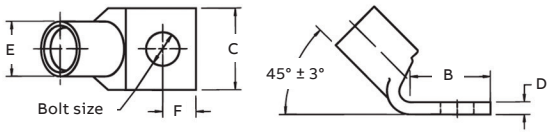
Compression connectors for copper conductors

Material – High-conductivity wrought copper
Finish – Electro tin plated

Two-hole lugs – 45° Standard barrel certified to 600 V and recommended up to 35 kV[x] (continued)

	Wire size			Dimensions in. (mm)							
Cat no.	Code cable	Flex cable classes G, H, I, K, M	Bolt size	B	C	D	E	F	G	Die code	Colour code
54213UF	250 kcmil	4/0 AWG, 250 Navy 550/24	⅜	1.93 (49.0)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.38 (9.7)	1.00 (25.4)	62	Yellow
54275UF	250 kcmil		½	2.81 (71.4)	1.13 (28.7)	0.18 (4.6)	0.77 (19.6)	0.25 (6.4)	1.75 (44.5)	62	
256-30695-399UF	–	4/0 Weld, 550/24 133/0.0399 259/0.0286 637/0.018	⅜	2.80 (71.1)	1.25 (31.2)	0.15 (3.8)	0.79 (20.1)	0.38 (9.7)	1.00 (25.4)	62	
58265UF	–		½	2.81 (71.4)	0.94 (23.9)	0.14 (3.6)	0.79 (20.1)	0.25 (6.4)	1.75 (44.5)	62	
54214UF	300 kcmil	250 AWG, 300 Navy 650/24 = 262 kcmil	⅜	1.93 (49.0)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.38 (9.7)	1.00 (25.4)	66	White
54280UF	300 kcmil		½	3.00 (76.2)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.50 (12.7)	1.75 (44.5)	66	
54215UF	350 kcmil	350 Navy 650/24 = 262 kcmil	⅜	1.93 (49.0)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.38 (9.7)	1.00 (25.4)	71	Red
54282UF	350 kcmil		½	3.00 (76.2)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.50 (12.7)	1.75 (44.5)	71	
54216UF	400 kcmil	300 kcmil, 713 kcmil 775/24	⅜	1.93 (49.0)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.38 (9.7)	1.06 (26.9)	76	Blue
54283UF	400 kcmil		⅜	1.93 (49.0)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.38 (9.7)	1.75 (44.5)	76	
54277UF	–	400 Weld 925/24 = 373 kcmil 259/0.0393 427/0.0306	½	3.00 (76.2)	1.61 (40.9)	0.22 (5.6)	1.04 (26.4)	0.50 (12.7)	1.00 (25.4)	80	–
54218UF	500 kcmil	400 kcmil, 500 Navy 925/24 = 373 kcmil	⅜	1.93 (49.0)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.38 (9.7)	1.75 (44.5)	87	Brown
54286UF	500 kcmil		½	3.00 (76.2)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.50 (12.7)	1.00 (25.4)	87	
54220UF	600 kcmil	1,100/24 = 444 kcmil	⅜	1.93 (49.0)	1.75 (44.5)	0.24 (6.1)	1.20 (30.5)	0.38 (9.7)	1.75 (44.5)	94	Green
54289UF	600 kcmil		½	3.00 (76.2)	1.75 (44.5)	0.24 (6.1)	1.20 (30.5)	0.50 (12.7)	1.75 (44.5)	94	
54291UF	700 kcmil	500 AWG 1,325/24 = 535 kcmil	½	3.00 (76.2)	1.84 (46.7)	0.23 (5.8)	1.25 (31.8)	0.50 (12.7)	1.75 (44.5)	99	Pink
54281UF	700 kcmil		½	3.00 (76.2)	1.84 (46.7)	0.28 (7.1)	1.25 (31.8)	0.50 (12.7)	1.75 (44.5)	99	
256-30695-237UF	750 kcmil	–	⅜	2.80 (71.1)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.38 (9.7)	1.00 (25.4)	106	Black
54223UF	750 kcmil		½	3.00 (76.2)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.50 (12.7)	1.75 (44.5)	106	
54224UF	800 kcmil	–	½	3.00 (76.2)	2.01 (51.1)	0.27 (6.9)	1.38 (35.1)	0.50 (12.7)	1.75 (44.5)	106	
54226UF	900 kcmil	1,925/24 = 777 kcmil	½	3.00 (76.2)	2.18 (55.4)	0.31 (7.9)	1.50 (38.1)	0.50 (12.7)	1.75 (44.5)	115	Yellow
54228UF	1,000 kcmil	1,000 Navy	½	3.00 (76.2)	2.27 (57.7)	0.30 (7.6)	1.55 (39.4)	0.50 (12.7)	1.75 (44.5)	125	–

Diagrams



[x] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

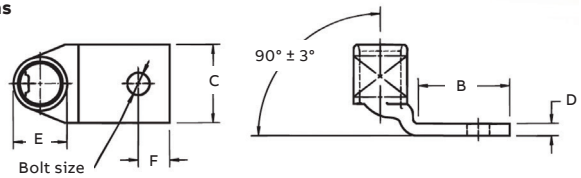
Compression connectors for copper conductors

Material – High-conductivity wrought copper
Finish – Electro tin plated

Two-hole lugs – 90° Standard barrel certified to 600 V and recommended up to 35 kV¥

Cat no.	Wire size: Code cable	Wire size: Flex cable classes G, H, I, K, M	Bolt size	Dimensions in. (mm): B	C	D	E	F	G	Die code	Colour code
256-31426-141	#14–10 AWG	–	#10	1.25 (31.2)	0.37 (9.4)	0.07 (1.8)	0.20 (5.1)	0.22 (5.6)	0.63 (16.0)	ERG2002	Yellow
256-31426-6SPH	#14–10 AWG		#10	1.30 (33.0)	0.37 (9.4)	0.07 (1.8)	0.20 (5.1)	0.22 (5.6)	0.63 – 0.75 (16.0) – (19.1)	ERG2002	
256-31426-6	#14–10 AWG		#10	1.30 (33.0)	0.37 (9.4)	0.07 (1.8)	0.20 (5.1)	0.22 (5.6)	0.63 (16.0)	ERG2002	
256-31426-6S	#14–10 AWG		#10	1.30 (33.0)	0.37 (9.4)	0.07 (1.8)	0.20 (5.1)	0.22 (5.6)	0.63 – 0.75 (16.0) – (19.1)	ERG2002	
256-30695-1409	#8 AWG	#8 AWG 23 Navy #8 Weld 37/24	#10	1.19 (30.2)	0.41 (10.4)	0.06 (1.5)	0.26 (6.6)	0.23 (5.8)	0.63 – 0.75 (16.0) – (19.1)	21	Red
54204UB	#8 AWG		#10	1.25 (31.8)	0.42 (10.7)	0.08 (2.0)	0.26 (6.6)	0.25 (6.4)	0.63 (16.0)	21	
256-31426-33UB*	#8 AWG		#10	1.19 (30.2)	0.41 (10.4)	0.06 (1.5)	0.26 (6.6)	0.23 (5.8)	0.63 (16.0)	21	
256-31426-33UBPH	#8 AWG		#10	1.19 (30.2)	0.41 (10.4)	0.06 (1.5)	0.26 (6.6)	0.23 (5.8)	0.63 – 0.75 (16.0) – (19.1)	21	
256-30695-1411	#6 AWG	#6 AWG 30 Navy #6 Weld 133/0.014 61/24	#10	1.19 (30.2)	0.44 (11.2)	0.08 (2.0)	0.30 (7.6)	0.23 (5.8)	0.63 – 0.75 (16.0) – (19.1)	24	Blue
256-30695-1183B	#6 AWG		#10	1.19 (30.2)	0.44 (11.2)	0.08 (2.0)	0.30 (7.6)	0.23 (5.8)	0.63 – 0.75 (16.0) – (19.1)	24	
256-30695-1356	#6 AWG		#10	1.19 (30.2)	0.43 (10.1)	0.08 (2.0)	0.30 (7.6)	0.23 (5.8)	0.63 (16.0)	24	
54205UB	#6 AWG		¼	1.28 (32.5)	0.44 (11.2)	0.08 (2.0)	0.30 (7.6)	0.25 (6.4)	0.63 (16.0)	24	
256-30695-252UB	#6 AWG		¼	1.56 (39.6)	0.43 (10.1)	0.08 (2.0)	0.30 (7.6)	0.25 (6.4)	1.00 (25.4)	24	
54206UB	#4 AWG	#5 AWG 40-50 Navy, 91/24 133/0.0177 49/0.029	¼	1.28 (32.5)	0.52 (13.2)	0.10 (2.5)	0.37 (9.4)	0.25 (6.4)	0.63 (16.0)	29	Grey
54207UB	#2 AWG	#3 AWG, 60 Navy #4 Weld, 125/24	¼	1.28 (32.5)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.25 (6.4)	0.63 (16.0)	33	Brown
54208UB	#1 AWG	#2 AWG, 75 Navy 150/24, 133/0.0223	¼	1.28 (32.5)	0.68 (17.3)	0.11 (2.8)	0.47 (11.9)	0.25 (6.4)	0.63 (16.0)	37	Green
54209UB	1/0 AWG	1 AWG, 100 Navy, #1 Weld, 225/24 133/0.0254	⅜	1.93 (49.0)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	1.00 (25.4)	42	Pink
54209UB0412	1/0 AWG		¼	1.55 (39.4)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.25 (6.4)	0.75 (19.1)	42	
54261UB	2/0 AWG	1/0 AWG, 125 Navy 1/0 Weld, 275/24 133/0.0282	5/16	1.63 (41.4)	0.83 (21.1)	0.14 (3.6)	0.57 (14.5)	0.34 (8.6)	0.88 (22.4)	45	Black
54210UB	2/0 AWG		⅜	1.93 (49.0)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.38 (9.7)	1.00 (25.4)	45	
54260UB	2/0 AWG		½	2.81 (71.4)	0.83 (21.1)	0.14 (3.6)	0.57 (14.5)	0.38 (9.7)	1.75 (44.5)	45	

Diagrams



* Blind end
¥ For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

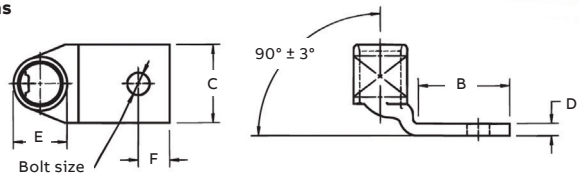
Compression connectors for copper conductors

Material – High-conductivity wrought copper
Finish – Electro tin plated

Two-hole lugs – 90° Standard barrel certified to 600 V and recommended up to 35 kV[x] (continued)

	Wire size			Dimensions in. (mm)							
Cat no.	Code cable	Flex cable classes G, H, I, K, M	Bolt size	B	C	D	E	F	G	Die code	Colour code
54266UB	3/0 AWG	2/0 AWG, 150 Navy 2/0 Weld, 325/24 133/0.0316 259/0.0227 427/0.0177	5/16	1.75 (44.5)	0.94 (23.9)	0.14 (3.6)	0.63 (16.0)	0.34 (8.6)	1.00 (25.4)	50	Orange
54211UB	3/0 AWG		3/8	1.81 (46.0)	0.94 (23.9)	0.14 (3.6)	0.63 (16.0)	0.38 (9.7)	1.00 (25.4)	50	
54265UB	3/0 AWG		1/2	2.81 (71.4)	0.94 (23.9)	0.14 (3.6)	0.63 (16.0)	0.38 (9.7)	1.75 (44.5)	50	
54212UB	4/0 AWG	3/0 AWG, 200 Navy 3/0 Weld, 450/24 703/0.0154	3/8	1.93 (49.0)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.38 (9.7)	1.00 (25.4)	54	Purple
54270UB	4/0 AWG		1/2	3.00 (76.2)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.50 (12.7)	1.75 (44.5)	54	
54213UB	250 kcmil	4/0 AWG, 250 Navy 550/24	3/8	1.93 (49.0)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.38 (9.7)	1.00 (25.4)	62	Yellow
54275UB	250 kcmil		1/2	2.81 (71.4)	1.13 (28.7)	0.18 (4.6)	0.77 (19.6)	0.50 (12.7)	1.75 (44.5)	62	
256-30595-399UB	–	4/0 AWG, 4/0 Weld 550/24 133/0.0399 259/0.0286 637/0.018	3/8	2.80 (71.1)	1.25 (31.8)	0.15 (3.8)	0.79 (20.1)	0.38 (9.7)	1.00 (25.4)	62	
58265UB	–		1/2	2.81 (71.4)	0.94 (23.9)	0.14 (3.6)	0.79 (20.1)	0.50 (12.7)	1.75 (44.5)	62	
54214UB	300 kcmil	250 AWG, 300 Navy 650/24 = 262 kcmil	3/8	1.93 (49.0)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.38 (9.7)	1.00 (25.4)	66	White
54280UB	300 kcmil		1/2	3.00 (76.2)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.50 (12.7)	1.75 (44.5)	66	
54215UB	350 kcmil	350 Navy 650/24 = 262 kcmil	3/8	1.93 (49.0)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.38 (9.7)	1.00 (25.4)	71	Red
54282UB	350 kcmil		1/2	3.00 (76.2)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.50 (12.7)	1.75 (44.5)	71	
54216UB	400 kcmil	300/313 kcmil 775/24	3/8	1.93 (49.0)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.38 (9.7)	1.06 (26.9)	76	Blue
54283UB	400 kcmil		3/8	1.93 (49.0)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.38 (9.7)	1.75 (44.5)	76	
54277UB	–	400 Weld, 925/24 373 kcmil 259/0.0393 427/0.0306	1/2	3.00 (76.2)	1.61 (40.9)	0.22 (5.6)	1.04 (26.4)	0.50 (12.7)	1.00 (25.4)	80	–
54218UB	500 kcmil	400 kcmil 500 Navy 925/24 = 373 kcmil	3/8	1.93 (49.0)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.38 (9.7)	1.75 (44.5)	87	Brown
54286UB	500 kcmil		1/2	3.00 (76.2)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.50 (12.7)	1.75 (44.5)	87	
256-30695-1221B	500 kcmil		3/8		1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.38 (9.7)	1.00 (25.4)	87	
54220UB	600 kcmil	1,100/24, 444 kcmil	3/8	1.93 (49.0)	1.75 (44.5)	0.24 (6.1)	1.20 (30.5)	0.38 (9.7)	1.75 (44.5)	94	Green
54289UB	600 kcmil		1/2	3.00 (76.2)	1.75 (44.5)	0.24 (6.1)	1.20 (30.5)	0.50 (12.7)	1.75 (44.5)	94	
54291UB	700 kcmil	1,325/24, 535 kcmil	1/2	3.00 (76.2)	1.84 (46.7)	0.23 (5.8)	1.25 (31.8)	0.50 (12.7)	1.75 (44.5)	99	Pink
54281UB	700 kcmil		1/2	3.00 (76.2)	1.84 (46.7)	0.28 (7.1)	1.25 (31.8)	0.50 (12.7)	1.75 (44.5)	99	
54223UB	750 kcmil	–	1/2	3.00 (76.2)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.50 (12.7)	1.75 (44.5)	106	Black
54224UB	800 kcmil		1/2	3.00 (76.2)	2.01 (51.1)	0.27 (6.9)	1.38 (35.1)	0.50 (12.7)	1.75 (44.5)	106	
54226UB	900 kcmil	1,925/24, 777 kcmil	1/2	3.00 (76.2)	2.18 (55.4)	0.31 (7.9)	1.50 (38.1)	0.50 (12.7)	1.75 (44.5)	115	Yellow
54228UB	1,000 kcmil	1,000 Navy	1/2	3.00 (76.2)	2.27 (57.7)	0.30 (7.6)	1.55 (39.4)	0.50 (12.7)	1.75 (44.5)	125	–

Diagrams



[x] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

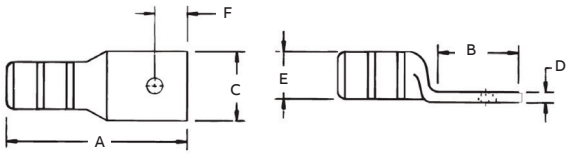
Compression connectors for copper conductors

Peep holes available – Add suffix PH
Material – High-conductivity wrought copper
Finish – Electro tin plated

One-hole lugs – Long barrel certified to 600 V and recommended up to 35 kV[x]

	Wire size			Dimensions in. (mm)							
Cat no.	Code cable	Flex cable classes G, H, I, K, M	Bolt size	A	B	C	D	E	F	Die code	Colour code
54901BE	#14–10 AWG	–	¼	1.23 (31.2)	0.56 (14.2)	0.50 (12.7)	0.05 (1.3)	0.20 (5.1)	0.25 (6.4)	ERG2002	–
54929BE	#8 AWG	#8 AWG 37/24	#10	1.65 (41.9)	0.65 (16.5)	0.42 (10.7)	0.08 (2.0)	0.26 (6.6)	0.25 (6.4)	21	Red
54930BE	#8 AWG		¼	1.65 (41.9)	0.65 (16.5)	0.42 (10.7)	0.08 (2.0)	0.26 (6.6)	0.25 (6.4)	21	
54904BE	#6 AWG	#6 AWG 61/24	#10	1.65 (41.9)	0.65 (16.5)	0.44 (11.2)	0.08 (2.0)	0.30 (7.6)	0.25 (6.4)	24	Blue
54905BE	#6 AWG		¼	1.65 (41.9)	0.65 (16.5)	0.44 (11.2)	0.08 (2.0)	0.30 (7.6)	0.25 (6.4)	24	
54908BE	#4 AWG	#5 AWG 91/24	#10	1.70 (43.2)	0.65 (16.5)	0.52 (13.2)	0.10 (2.5)	0.37 (9.4)	0.25 (6.4)	29	Grey
54906BE	#4 AWG		¼	1.70 (43.2)	0.65 (16.5)	0.52 (13.2)	0.10 (2.5)	0.37 (9.4)	0.25 (6.4)	29	
54933BE	#2–3 AWG	#3 AWG 125/24	#10	1.88 (47.8)	0.65 (16.5)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.25 (6.4)	33	Brown
54942BE	#2–3 AWG		5/16	2.03 (51.6)	0.88 (22.4)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.38 (9.7)	33	
54945BE	#1 AWG	#2 AWG 150/24	#10	1.95 (49.5)	0.65 (16.5)	0.68 (17.3)	0.11 (2.8)	0.47 (11.9)	0.25 (6.4)	37	Green
54947BE	#1 AWG		5/16	2.18 (55.4)	0.88 (22.4)	0.68 (17.3)	0.11 (2.8)	0.47 (11.9)	0.38 (9.7)	37	
54946BE	1/0 AWG	#1 AWG 225/24	#10	1.95 (49.5)	0.65 (16.5)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.25 (6.4)	42	Pink
54949BE	1/0 AWG		5/16	2.18 (55.4)	0.88 (22.4)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	42	
54909BE	1/0 AWG		⅜	2.23 (56.6)	0.93 (23.6)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	42	
54950BE	1/0 AWG		½	2.55 (64.8)	1.25 (31.8)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.50 (12.7)	42	
54910BE	2/0 AWG	1/0 AWG 275/24	⅜	2.28 (57.9)	1.25 (31.8)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.38 (9.7)	45	Black
54951BE	2/0 AWG		½	2.60 (66.4)	1.25 (31.8)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.50 (12.7)	45	
54965BE	3/0 AWG	2/0 AWG, 325/24	½	2.70 (68.6)	1.25 (31.8)	0.92 (23.4)	0.13 (3.3)	0.63 (16.0)	0.50 (12.7)	50	Orange
256-30695-1252	4/0 AWG	3/0 AWG, 3/0 Weld 450/24	¼	2.35 (59.7)	0.65 (16.5)	1.03 (33.0)	0.14 (3.6)	0.70 (17.8)	0.75 (19.1)	54	Purple
256-30695-1253	4/0 AWG		⅜	2.95 (74.9)	1.25 (31.8)	1.03 (33.0)	0.14 (3.6)	0.70 (17.8)	0.38 (9.7)	54	
54970BE	4/0 AWG		½	2.95 (74.9)	1.25 (31.8)	1.03 (33.0)	0.14 (3.6)	0.77 (19.6)	0.50 (12.7)	54	
54913BE	250 kcmil	4/0 AWG, 4/0 Weld 550/24	½	3.15 (80.1)	1.25 (31.8)	1.13 (28.7)	0.14 (3.6)	0.85 (21.6)	0.50 (12.7)	62	Yellow
54914BE	300 kcmil	250 kcmil 650/24 = 262 kcmil	½	3.50 (88.9)	1.25 (31.8)	1.25 (31.8)	0.15 (3.8)	0.93 (23.6)	0.50 (12.7)	66	White
54915BE	350 kcmil	–	½	3.68 (93.5)	1.58 (40.1)	1.36 (34.5)	0.18 (4.6)	0.96 (24.4)	0.50 (12.7)	71	Red
54916BE	400 kcmil	775/24 = 300/313 kcmil	½	3.75 (95.3)	1.25 (31.8)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.50 (12.7)	76	Blue
54917BE	400 kcmil		⅝	4.03 (102.4)	1.58 (40.1)	1.41 (35.8)	0.17 (4.3)	1.10 (27.9)	0.63 (16.0)	76	
54918BE	500 kcmil	400 kcmil 925/24 = 373 kcmil	½	4.25 (108.0)	1.25 (31.8)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.50 (12.7)	87	Brown
54919BE	500 kcmil		⅝	4.57 (116.8)	1.58 (40.1)	1.61 (40.9)	0.22 (5.6)	1.20 (30.5)	0.63 (16.0)	87	
54921BE	600 kcmil	1,100/24 = 444 kcmil	½	4.10 (104.1)	1.25 (31.8)	1.75 (44.5)	0.24 (6.1)	1.20 (30.5)	0.50 (12.7)	94	Green
54920BE	600 kcmil		⅝	4.39 (111.6)	1.58 (40.1)	1.75 (44.5)	0.24 (6.1)	1.20 (30.5)	0.63 (16.0)	94	
54979BE	–	1,325/24 = 535 kcmil	½	4.40 (111.8)	1.25 (31.8)	1.80 (45.7)	0.24 (6.1)	1.25 (31.8)	0.50 (12.7)	99	Pink

Diagrams



[x] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

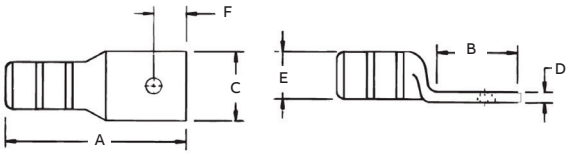
Compression connectors for copper conductors

Peep holes available – Add suffix PH
Material – High-conductivity wrought copper
Finish – Electro tin plated

One-hole lugs – Long barrel certified to 600 V and recommended up to 35 kV[x] (continued)

	Wire size			Dimensions in. (mm)							
Cat no.	**Code cable**	**Flex cable classes G, H, I, K, M**	**Bolt size**	**A**	**B**	**C**	**D**	**E**	**F**	**Die code**	**Colour code**
54922BE	750 kcmil	1,325/24 = 535 kcmil	½	4.40 (111.8)	1.25 (31.8)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.50 (12.7)	106	**Black**
54923BE	–	1,325/24 = 535 kcmil	⅝	4.72 (119.9)	1.58 (40.1)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.63 (16.0)	106	
58984BE	–	1,600/24 = 646 kcmil	⅝	4.73 (120.1)	1.58 (40.1)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.63 (16.0)	106	
58926BE	900 kcmil	1,925/24 = 777 kcmil	⅝	5.23 (132.8)	1.58 (40.1)	2.17 (55.1)	0.31 (7.9)	1.50 (38.1)	0.63 (16.0)	115	**Yellow**
54928BE	1,000 kcmil	–	⅝	5.24 (134.0)	1.58 (40.1)	2.27 (57.7)	0.30 (7.6)	1.55 (39.4)	0.63 (16.0)	125	–
256-30695-918	1,000 kcmil	–	⅞	5.42 (137.7)	1.82 (46.2)	2.38 (60.5)	0.30 (7.6)	1.55 (39.4)	0.88 (22.4)	125	

Diagrams



[x] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

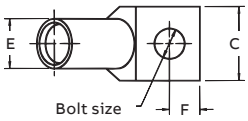
Compression connectors for copper conductors

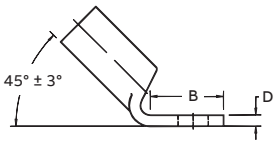
Peep holes available – Add suffix PH
Material – High-conductivity wrought copper
Finish – Electro tin plated

One-hole lugs – 45° Long barrel certified to 600 V and recommended up to 35 kV¥

	Wire size			Dimensions in. (mm)						
Cat no.	Code cable	Flex cable classes G, H, I, K, M	Bolt size	B	C	D	E	F	Die code	Colour code
54929BEUF	#8 AWG	37/24	#1/0	0.65 (16.5)	0.42 (10.7)	0.08 (2.0)	0.26 (6.6)	0.25 (6.4)	21	Red
54930BEUF	#8 AWG	37/24	¼	0.65 (16.5)	0.42 (10.7)	0.08 (2.0)	0.26 (6.6)	0.25 (6.4)	21	
54904BEUF	#6 AWG	#6 AWG, 61/24	#1/0	0.65 (16.5)	0.44 (11.2)	0.08 (2.0)	0.30 (7.6)	0.25 (6.4)	24	Blue
54905BEUF	#6 AWG	#6 AWG, 61/24	¼	0.65 (16.5)	0.44 (11.2)	0.08 (2.0)	0.30 (7.6)	0.25 (6.4)	24	
54908BEUF	#4 AWG	#5 AWG, 91/24	#1/0	0.65 (16.5)	0.52 (13.2)	0.10 (2.5)	0.37 (9.4)	0.25 (6.4)	29	Grey
54906BEUF	#4 AWG	#5 AWG, 91/24	¼	0.65 (16.5)	0.52 (13.2)	0.10 (2.5)	0.37 (9.4)	0.25 (6.4)	29	
54933BEUF	#2–3 AWG	125/24	#1/0	0.65 (16.5)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.25 (6.4)	33	Brown
54942BEUF	#2–3 AWG	125/24	5/16	0.88 (22.4)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.88 (22.4)	33	
54945BEUF	#1 AWG	#2 AWG, 150/24 – 175/24	#1/0	0.65 (16.5)	0.68 (17.3)	0.11 (2.8)	0.47 (11.9)	0.25 (6.4)	37	Green
54947BEUF	#1 AWG	#2 AWG, 150/24 – 175/24	5/16	0.88 (22.4)	0.68 (17.3)	0.11 (2.8)	0.47 (11.9)	0.38 (9.7)	37	
54946BEUF	1/0 AWG	#1 AWG, 225/24	#1/0	0.65 (16.5)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.25 (6.4)	42	Pink
54949BEUF	1/0 AWG	#1 AWG, 225/24	5/16	0.88 (22.4)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	42	
54909BEUF	1/0 AWG	#1 AWG, 225/24	⅜	0.93 (23.6)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	42	
54950BEUF	1/0 AWG	#1 AWG, 225/24	½	1.25 (31.8)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.50 (12.7)	42	
54910BEUF	2/0 AWG	1/0 AWG, 275/24	⅜	0.93 (23.6)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.38 (9.7)	45	Black
54951BEUF	2/0 AWG	1/0 AWG, 275/24	½	1.25 (31.8)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.50 (12.7)	45	
54965BEUF	3/0 AWG	2/0 AWG – 325/24	½	1.25 (31.8)	0.92 (23.4)	0.13 (3.3)	0.63 (16.0)	0.50 (12.7)	50	Orange
54970BEUF04	4/0 AWG	3/0 AWG, 450/24, 3/0 Weld	¼	1.00 (25.4)	1.03 (26.1)	0.14 (3.6)	0.70 (17.8)	0.25 (6.4)	54	Purple
54970BEUF06	4/0 AWG	3/0 AWG, 450/24, 3/0 Weld	⅜	1.13 (23.6)	1.03 (26.1)	0.14 (3.6)	0.70 (17.8)	0.38 (9.7)	54	
54970BEUF	4/0 AWG	3/0 AWG, 450/24, 3/0 Weld	½	1.25 (31.8)	1.03 (26.1)	0.14 (3.6)	0.70 (17.8)	0.50 (12.7)	54	
54913BEUF	250 kcmil	550/24 – 4/0 AWG, 4/0 Weld	½	1.25 (31.8)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.50 (12.7)	62	Yellow
54914BEUF	300 kcmil	250 kcmil, 650/24 = 262 kcmil	½	1.25 (31.8)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.50 (12.7)	66	White
54915BEUF	350 kcmil	650/24, 262 kcmil	½	1.25 (31.8)	1.36 (34.8)	0.18 (4.6)	0.93 (23.6)	0.50 (12.7)	71	Red
54916BEUF	400 kcmil	775/24, 300/313 kcmil	½	1.25 (31.8)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.50 (12.7)	76	Blue
54917BEUF	400 kcmil	775/24, 300/313 kcmil	⅝	1.58 (40.1)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.63 (16.0)	76	
54918BEUF	500 kcmil	925/24, 350/373 kcmil 400 kcmil	½	1.25 (31.8)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.50 (12.7)	87	Brown
54919BEUF	500 kcmil	925/24, 350/373 kcmil 400 kcmil	⅝	1.58 (40.1)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.63 (16.0)	87	
54921BEUF	600 kcmil	1,100/24, 444 kcmil	½	1.25 (31.8)	1.75 (44.5)	0.24 (6.1)	1.20 (30.5)	0.50 (12.7)	94	Green
54920BEUF	600 kcmil	1,100/24, 444 kcmil	⅝	1.58 (40.1)	1.75 (44.5)	0.24 (6.1)	1.20 (30.5)	0.63 (16.0)	94	
54922BEUF	750 kcmil	1,325/24, 500/535 kcmil	½	1.25 (31.8)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.50 (12.7)	106	Black
54923BEUF	750 kcmil	1,325/24, 500/535 kcmil	⅝	1.58 (40.1)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.63 (16.0)	106	
58984BEUF	–	1,600/24, 646 kcmil	⅝	1.58 (40.1)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.63 (16.0)	106	
58926BEUF	900 kcmil	1,925/24, 777 kcmil	⅝	1.58 (40.1)	2.17 (55.1)	0.31 (7.9)	1.50 (38.1)	0.63 (16.0)	115	Yellow
54928BEUF	1,000 kcmil	–	⅝	1.58 (40.1)	2.27 (57.7)	0.30 (7.6)	1.55 (39.4)	0.63 (16.0)	125	–
54928BEUF12	1,000 kcmil	–	⅞	1.83 (46.5)	2.37 (60.2)	0.30 (7.6)	1.55 (39.4)	0.88 (22.4)	125	

Diagrams





¥ For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

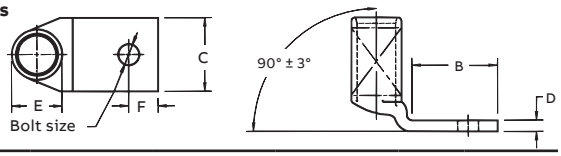
Compression connectors for copper conductors

Peep holes available – Add suffix PH
Material – High-conductivity wrought copper
Finish – Electro tin plated

One-hole lugs – 90° Long barrel certified to 600 V and recommended up to 35 kV[¥]

	Wire size			Dimensions in. (mm)						
Cat no.	Code cable	Flex cable classes G, H, I, K, M	Bolt size	B	C	D	E	F	Die code	Colour code
54929BEUB	#8 AWG	37/24	#10	0.65 (16.5)	0.42 (10.7)	0.08 (2.0)	0.26 (6.6)	0.25 (6.4)	21	Red
54930BEUB	#8 AWG	37/24	¼	0.65 (16.5)	0.42 (10.7)	0.08 (2.0)	0.26 (6.6)	0.25 (6.4)	21	
54904BEUB	#6 AWG	#6 AWG, 61/24	#10	0.65 (16.5)	0.44 (11.2)	0.08 (2.0)	0.30 (7.6)	0.25 (6.4)	24	Blue
54905BEUB	#6 AWG	#6 AWG, 61/24	¼	0.65 (16.5)	0.44 (11.2)	0.08 (2.0)	0.30 (7.6)	0.25 (6.4)	24	
54908BEUB	#4 AWG	#5 AWG, 91/24	#10	0.65 (16.5)	0.52 (13.2)	0.10 (2.5)	0.37 (9.4)	0.25 (6.4)	29	Grey
54906BEUB	#4 AWG	#5 AWG, 91/24	¼	0.65 (16.5)	0.52 (13.2)	0.10 (2.5)	0.37 (9.4)	0.25 (6.4)	29	
54933BEUB	#2–3 AWG	125/24	#10	0.65 (16.5)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.25 (6.4)	33	Brown
54942BEUB	#2–3 AWG	125/24	5/16	0.88 (22.4)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.38 (9.7)	33	
54945BEUB	#1 AWG	#2 AWG, 150/24 – 175/24	#10	0.65 (16.5)	0.68 (17.3)	0.11 (2.8)	0.47 (11.9)	0.25 (6.4)	37	Green
54947BEUB	#1 AWG	#2 AWG, 150/24 – 175/24	5/16	0.88 (22.4)	0.68 (17.3)	0.11 (2.8)	0.47 (11.9)	0.38 (9.7)	37	
54946BEUB	1/0 AWG	#1 AWG, 225/24	#10	0.65 (16.5)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.25 (6.4)	42	Pink
54949BEUB	1/0 AWG	#1 AWG, 225/24	5/16	0.88 (22.4)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	42	
54909BEUB	1/0 AWG	#1 AWG, 225/24	⅜	0.93 (23.6)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	42	
54950BEUB	1/0 AWG	#1 AWG, 225/24	½	1.25 (31.8)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.50 (12.7)	42	
54910BEUB	2/0 AWG	1/0 AWG, 275/24	⅜	0.93 (23.6)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.38 (9.7)	45	Black
54951BEUB	2/0 AWG	1/0 AWG, 275/24	½	1.25 (31.8)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.50 (12.7)	45	
54965BEUB	3/0 AWG	2/0 AWG – 325/24	½	1.25 (31.8)	0.92 (23.4)	0.13 (3.3)	0.63 (16.0)	0.50 (12.7)	50	Orange
54970BEUB04	4/0 AWG	3/0 AWG, 450/24, 3/0 Weld	¼	1.00 (25.4)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.25 (6.4)	54	Purple
54970BEUB06	4/0 AWG	3/0 AWG, 450/24, 3/0 Weld	⅜	1.13 (28.7)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.38 (9.7)	54	
54970BEUB	4/0 AWG	3/0 AWG, 450/24, 3/0 Weld	½	1.25 (31.8)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.50 (12.7)	54	
54913BEUB	250 kcmil	550/24 – 4/0 AWG, 4/0 Weld	½	1.25 (31.8)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.50 (12.7)	62	Yellow
54914BEUB	300 kcmil	250 kcmil, 650/24 = 262 kcmil	½	1.25 (31.8)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.50 (12.7)	66	White
54915BEUB	350 kcmil	650/24, 262 kcmil	½	1.25 (31.8)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.50 (12.7)	71	Red
54916BEUB	400 kcmil	775/24, 300/313 kcmil	½	1.58 (40.1)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.50 (12.7)	76	Blue
54917BEUB	400 kcmil	775/24, 300/313 kcmil	⅝	1.25 (31.8)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.63 (16.0)	76	
54918BEUB	500 kcmil	925/24, 350/373 kcmil, 400 kcmil	½	1.58 (40.1)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.50 (12.7)	87	Brown
54919BEUB	500 kcmil	925/24, 350/373 kcmil, 400 kcmil	⅝	1.25 (31.8)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.63 (16.0)	87	
54921BEUB	600 kcmil	1100/24, 444 kcmil	½	1.58 (40.1)	1.75 (44.5)	0.24 (6.1)	1.20 (30.5)	0.50 (12.7)	94	Green
54920BEUB	600 kcmil	1100/24, 444 kcmil	⅝	1.25 (31.8)	1.75 (44.5)	0.24 (6.1)	1.20 (30.5)	0.63 (16.0)	94	
54922BEUB	750 kcmil	1,325/24, 500/535 kcmil	½	1.25 (31.8)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.50 (12.7)	106	Black
54923BEUB	750 kcmil	1,325/24, 500/535 kcmil	⅝	1.58 (40.1)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.63 (16.0)	106	
58984BEUB	–	1,600/24, 646 kcmil	⅝	1.58 (40.1)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.63 (16.0)	106	
58926BEUB	900 kcmil	1,925/24, 777 kcmil	⅝	1.58 (40.1)	2.17 (55.1)	0.31 (7.9)	1.50 (38.1)	0.63 (16.0)	115	Yellow
54928BEUB	1,000 kcmil	–	⅝	1.58 (40.1)	2.27 (57.7)	0.30 (7.6)	1.55 (39.4)	0.63 (16.0)	125	–
54928BEUB12	1,000 kcmil	–	⅞	1.58 (46.5)	2.37 (60.2)	0.30 (7.6)	1.55 (39.4)	0.88 (22.4)	125	

Diagrams



[¥] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

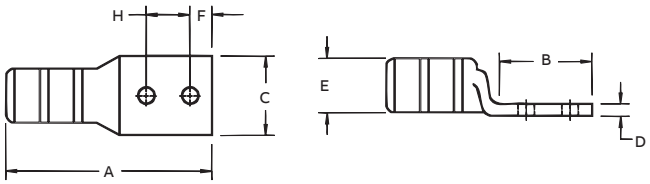
Compression connectors for copper conductors

Peep holes available – Add suffix PH
Material – High-conductivity wrought copper
Finish – Electro tin plated

Two-hole lugs – Long barrel certified to 600 V and recommended up to 35 kV[Y]

	Wire size			Dimensions in. (mm)								
Cat no.	Code cable	Flex cable classes G, H, I, K, M	Bolt size	A	B	C	D	E	F	H	Die code	Colour code
54801BE	#14–10 AWG	–	¼	1.86 (47.2)	1.19 (30.2)	0.50 (12.7)	0.05 (1.3)	0.20 (5.1)	0.25 (6.4)	0.63 (16.0)	ERG4002	Yellow
256-31426-3	#14–10 AWG		#10	2.00 (50.8)	1.25 (31.2)	0.37 (9.4)	0.07 (1.8)	0.20 (5.1)	0.25 (6.4)	0.63 (16.0)	ERG4002	
256-31426-3SPH	#14–10 AWG		#10	2.00 (50.8)	1.25 (31.2)	0.37 (9.4)	0.07 (1.8)	0.20 (5.1)	0.22 (5.6)	0.63 – 0.75 (16.0) – (19.1)	ERG4002	
256-30695-1298	#14–10 AWG		¼	1.89 (48.0)	1.22 (31.0)	0.50 (12.7)	0.05 (1.3)	0.20 (5.1)	0.25 (6.4)	0.63 (16.0)	ERG4002	
256-30695-1730	#14–10 AWG		¼	1.98 (50.3)	1.31 (33.3)	0.50 (12.7)	0.05 (1.3)	0.20 (5.1)	0.25 (6.4)	0.63 – 0.75 (16.0) – (19.1)	ERG4002	
54850BE	#8 AWG	#8 AWG, #8 Weld 37/24	¼	2.19 (55.6)	1.89 (48.0)	0.42 (10.7)	0.07 (1.78)	0.26 (6.6)	0.25 (6.4)	0.63 (16.0)	21	Red
54851BE	#8 AWG		¼	2.31 (58.7)	1.29 (32.8)	0.47 (11.9)	0.06 (1.52)	0.26 (6.6)	0.25 (6.4)	0.75 (19.1)	21	
256-30695-1157	#8 AWG		⅜	3.00 (76.2)	2.10 (53.3)	0.56 (14.2)	0.06 (1.52)	0.26 (6.6)	0.38 (9.7)	1.00 (25.4)	21	
54852BE	#6 AWG	#6 AWG, 61/24, #6 Weld	¼	2.28 (57.9)	1.28 (32.5)	0.44 (11.1)	0.08 (2.03)	0.30 (7.6)	0.25 (6.4)	0.63 (16.0)	24	Blue
256-30695-1014	#6 AWG		¼	2.63 (66.8)	1.63 (41.4)	0.43 (10.9)	0.08 (2.03)	0.30 (7.6)	0.25 (6.4)	1.00 (25.4)	24	
256-30695-1225	#6 AWG		¼	2.43 (61.7)	1.43 (36.3)	0.43 (10.9)	0.08 (2.03)	0.30 (7.6)	0.25 (6.4)	0.75 (19.1)	24	
256-30695-1158	#6 AWG		⅜	2.93 (74.4)	1.93 (49.0)	0.59 (14.9)	0.06 (1.52)	0.30 (7.6)	0.38 (9.7)	1.00 (25.4)	24	
256-30695-868	#6 AWG		½	4.18 (106.2)	3.00 (76.2)	0.88 (22.4)	0.11 (2.8)	0.30 (7.6)	0.50 (12.7)	1.75 (44.5)	24	
54854BE	#4 AWG	91/24, #5 AWG, #4 Weld	¼	2.31 (58.7)	1.19 (30.2)	0.52 (13.1)	0.10 (2.5)	0.37 (9.4)	0.25 (6.4)	0.63 (16.0)	29	Grey
256-30695-1246	#4 AWG		¼	2.31 (54.1)	1.31 (33.3)	0.56 (14.2)	0.09 (2.3)	0.37 (9.4)	0.25 (6.4)	0.75 (19.1)	29	
256-30695-1015	#4 AWG		¼	2.88 (73.2)	1.88 (47.8)	0.58 (14.7)	0.09 (2.3)	0.37 (9.4)	0.38 (9.7)	1.00 (25.4)	29	
256-30695-1337	#4 AWG		5/16	2.75 (69.9)	1.75 (44.5)	0.56 (14.2)	0.10 (2.5)	0.37 (9.4)	0.34 (8.4)	1.00 (25.4)	29	
256-30695-1159	#4 AWG		⅜	3.13 (79.5)	1.98 (50.3)	0.59 (14.9)	0.09 (2.3)	0.37 (9.4)	0.38 (9.7)	1.00 (25.4)	29	
256-30695-733	#4 AWG		½	4.18 (106.2)	3.00 (76.2)	0.88 (22.4)	0.09 (2.3)	0.37 (9.4)	0.50 (12.7)	1.75 (44.5)	29	
256-30695-1016*	#2–3 AWG	#3 AWG, 125/24	¼	3.06 (77.7)	1.88 (47.8)	0.67 (17.0)	0.09 (2.3)	0.41 (10.4)	0.38 (9.7)	1.00 (25.4)	33	Brown
54855BE	#2–3 AWG		¼	2.43 (61.7)	1.28 (32.5)	0.59 (14.9)	0.11 (2.8)	0.41 (10.4)	0.50 (12.7)	0.63 (16.0)	33	
256-30695-1300	#2–3 AWG		¼	2.63 (66.8)	1.35 (34.3)	0.68 (17.3)	0.11 (2.8)	0.41 (10.4)	0.25 (6.4)	0.75 (19.1)	33	
54856BE	#2–3 AWG		5/16	2.78 (70.6)	1.63 (41.4)	0.59 (14.9)	0.11 (2.8)	0.41 (10.4)	0.38 (9.7)	0.75 (19.1)	33	
54810BE	#2–3 AWG		⅜	3.80 (96.5)	2.57 (65.3)	0.59 (14.9)	0.11 (2.8)	0.41 (10.4)	0.38 (9.7)	1.75 (44.5)	33	
256-30695-1160	#2–3 AWG		⅜	3.08 (78.2)	1.94 (49.3)	0.59 (14.9)	0.11 (2.8)	0.41 (10.4)	0.38 (9.7)	1.00 (25.4)	33	
256-30695-869	#2–3 AWG		½	4.02 (102.1)	2.88 (73.2)	0.25 (6.4)	0.75 (19.1)	0.41 (10.4)	0.63 (16.0)	1.75 (44.5)	33	
54811BE	#2–3 AWG		½	4.28 (108.7)	3.00 (76.2)	0.88 (22.4)	0.11 (2.8)	0.41 (10.4)	0.50 (12.7)	1.75 (44.5)	33	
54809BE	#1 AWG	#2 AWG 150/24 175/24 #2 Weld	¼	2.88 (73.2)	1.19 (30.2)	0.67 (17.0)	0.11 (2.8)	0.47 (11.9)	0.25 (6.4)	0.63 (16.0)	37	Green
54812BE	#1 AWG		¼	2.75 (69.9)	1.40 (35.6)	0.67 (17.0)	0.11 (2.8)	0.47 (11.9)	0.25 (6.4)	0.75 (19.1)	37	
54858BE	#1 AWG		5/16	2.94 (75.4)	1.63 (41.4)	0.67 (17.0)	0.11 (2.8)	0.47 (11.9)	0.38 (9.7)	0.88 (22.4)	37	
256-30695-1161	#1 AWG		⅜	3.30 (83.8)	1.98 (50.3)	0.67 (17.0)	0.11 (2.8)	0.47 (11.9)	0.38 (9.7)	1.00 (25.4)	37	
54857BE	#1 AWG		½	4.43 (112.5)	3.00 (76.2)	0.88 (22.4)	0.11 (2.8)	0.47 (11.9)	0.50 (12.7)	1.75 (44.5)	37	

Diagrams



* CSA not applicable
[Y] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

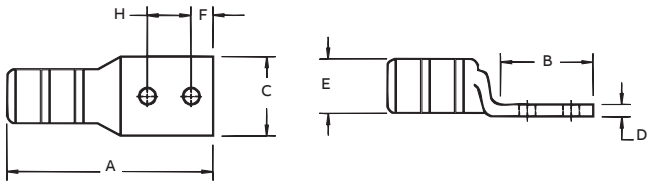
Compression connectors for copper conductors

Peep holes available – Add suffix PH
Material – High-conductivity wrought copper
Finish – Electro tin plated

Two-hole lugs – Long barrel certified to 600 V and recommended up to 35 kV[x] (continued)

Cat no.	Wire size: Code cable	Wire size: Flex cable classes G, H, I, K, M	Bolt size	Dimensions in. (mm): A	B	C	D	E	F	H	Die code	Colour code
256-30695-1018	1/0 AWG	#1 AWG, 225/24	¼	3.63 (92.2)	1.88 (47.8)	0.75 (19.0)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	1.00 (25.4)	42	Pink
256-30695-1018P	1/0 AWG		¼	3.63 (92.2)	1.88 (47.8)	0.75 (19.0)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	1.00 (25.4)	42	
54859BE	1/0 AWG		¼	2.63 (66.8)	1.19 (30.2)	0.75 (19.0)	0.13 (3.3)	0.52 (13.2)	0.25 (6.4)	0.63 (16.0)	42	
54813BE	1/0 AWG		¼	2.71 (68.8)	1.38 (35.1)	0.75 (19.0)	0.13 (3.3)	0.52 (13.2)	0.25 (6.4)	0.75 (19.1)	42	
54860BE	1/0 AWG		5/16	2.97 (75.4)	1.63 (41.4)	0.75 (19.0)	0.13 (3.3)	0.52 (13.2)	0.50 (12.7)	0.88 (22.4)	42	
256-30695-1162P	1/0 AWG		⅜	3.25 (82.3)	1.98 (50.3)	0.75 (19.0)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	1.00 (25.4)	42	
256-30695-1162	1/0 AWG		⅜	3.23 (82.0)	1.93 (49.0)	0.75 (19.0)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	1.00 (25.4)	42	
256-30695-593	1/0 AWG		½	4.33 (110.0)	3.00 (76.2)	0.75 (19.0)	0.13 (3.3)	0.52 (13.2)	0.63 (16.0)	1.75 (44.5)	42	
54814BE	2/0 AWG	1/0 AWG, 1/0 Weld 275/24	¼	2.62 (66.5)	1.25 (31.8)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.25 (6.4)	0.63 (16.0)	45	Black
256-30695-1299	2/0 AWG		¼	2.69 (68.3)	1.31 (33.3)	0.81 (20.6)	0.13 (3.3)	0.57 (14.5)	0.25 (6.4)	0.75 (19.1)	45	
256-30695-1116	2/0 AWG		⅜	3.19 (81.0)	1.81 (46.0)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.38 (9.7)	1.00 (25.4)	45	
256-30695-1116P	2/0 AWG		⅜	3.19 (81.0)	1.81 (46.0)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.38 (9.7)	1.00 (25.4)	45	
54862BE	2/0 AWG		½	4.20 (106.7)	2.81 (71.4)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.50 (12.7)	1.75 (44.5)	45	
54815BE	3/0 AWG	2/0 AWG, 2/0 Weld 325/24	¼	2.89 (73.4)	1.45 (36.8)	0.92 (23.4)	0.13 (3.3)	0.63 (16.0)	0.25 (6.4)	0.75 (19.1)	50	Orange
54816BE	3/0 AWG		⅜	3.25 (82.6)	1.63 (41.4)	0.92 (23.4)	0.13 (3.3)	0.63 (16.0)	0.38 (9.7)	1.00 (25.4)	50	
54864BE	3/0 AWG		½	4.48 (113.8)	3.00 (76.2)	0.94 (23.9)	0.13 (3.3)	0.63 (16.0)	0.50 (12.7)	1.75 (44.5)	50	
54817BE	4/0 AWG	3/0 AWG, 3/0 Weld 450/24	¼	3.15 (80.0)	1.38 (35.1)	1.03 (33.0)	0.14 (3.6)	0.70 (17.8)	0.25 (6.4)	0.75 (19.1)	54	Purple
54818BE	4/0 AWG		⅜	4.38 (111.3)	2.63 (66.8)	1.03 (33.0)	0.14 (3.6)	0.70 (17.8)	0.38 (9.7)	1.75 (44.5)	54	
256-30695-1117	4/0 AWG		⅜	3.35 (85.1)	1.81 (46.0)	1.03 (33.0)	0.14 (3.6)	0.70 (17.8)	0.38 (9.7)	1.00 (25.4)	54	
256-30695-1117P	4/0 AWG		⅜	3.50 (88.9)	1.88 (47.8)	1.03 (33.0)	0.14 (3.6)	0.70 (17.8)	0.38 (9.7)	1.00 (25.4)	54	
54866BE	4/0 AWG		½	4.70 (119.4)	3.00 (76.2)	1.03 (33.0)	0.14 (3.6)	0.70 (17.8)	0.50 (12.7)	1.75 (44.5)	54	
256-30695-1245	250 kcmil	4/0 AWG, 4/0 Weld 550/24	⅜	3.83 (97.3)	1.93 (49.0)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.38 (9.7)	1.00 (25.4)	62	Yellow
256-30695-1245P	250 kcmil		⅜	3.83 (97.3)	1.93 (49.0)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.38 (9.7)	1.00 (25.4)	62	
54868BE	250 kcmil		½	4.92 (125.0)	3.00 (76.2)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.50 (12.7)	1.75 (44.5)	62	
54819BE	300 kcmil	250 kcmil 650/24 = 262 kcmil	⅜	5.04 (137.2)	2.80 (71.1)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.38 (9.7)	1.00 (25.4)	66	White
54870BE	300 kcmil		½	5.23 (132.8)	3.00 (76.2)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.50 (12.7)	1.75 (44.5)	66	
54820BE	350 kcmil	–	¼	4.29 (109.0)	1.93 (49.0)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.25 (6.4)	1.75 (44.5)	71	Red
256-30695-1118	350 kcmil		⅜	4.33 (110.0)	1.93 (49.0)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.38 (9.7)	1.00 (25.4)	71	
256-30695-1118P	350 kcmil		⅜	4.33 (110.0)	1.93 (49.0)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.38 (9.7)	1.00 (25.4)	71	
54872BE	350 kcmil		½	5.40 (137.2)	3.00 (76.2)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.50 (12.7)	1.75 (44.5)	71	

Diagrams



[x] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

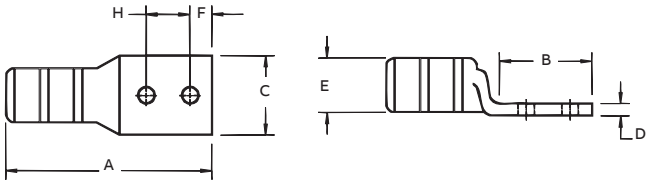
Compression connectors for copper conductors

Peep holes available – Add suffix PH
Material – High-conductivity wrought copper
Finish – Electro tin plated

Two-hole lugs – Long barrel certified to 600 V and recommended up to 35 kV[x] (continued)

	Wire size			Dimensions in. (mm)								
Cat no.	Code cable	Flex cable classes G, H, I, K, M	Bolt size	A	B	C	D	E	F	H	Die code	Colour code
54822BE	400 kcmil	300 kcmil	¼	4.38 (111.3)	1.93 (49.0)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.25 (6.4)	0.75 (19.1)	76	Blue
54821BE	400 kcmil	775/24, 313 kcmil	⅜	4.43 (112.5)	1.93 (49.0)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.38 (9.7)	1.00 (25.4)	76	
54874BE	400 kcmil		½	5.51 (140.0)	3.00 (76.2)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.50 (12.7)	1.75 (44.5)	76	
54823BE	500 kcmil	400 kcmil	¼	4.93 (125.2)	1.94 (49.3)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.25 (6.4)	0.75 (19.1)	87	Brown
256-30695-1119	500 kcmil	925/24 350/373 kcmil	⅜	5.00 (127.0)	1.93 (49.0)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.38 (9.7)	1.00 (25.4)	87	
256-30695-1119P	500 kcmil		⅜	5.00 (127.0	1.93 (49.0)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.38 (9.7)	1.00 (25.4)	87	
54876BE	500 kcmil		½	6.00 (152.4)	3.00 (76.2)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.50 (12.7)	1.75 (44.5)	87	
54824BE	600 kcmil	1100/24, 444 kcmil	⅜	5.70 (144.8)	2.80 (71.1)	1.75 (44.5)	0.24 (6.1)	1.20 (30.5)	0.38 (9.7)	1.00 (25.4)	94	Green
54878BE	600 kcmil		½	5.83 (148.1)	3.00 (76.2)	1.75 (44.5)	0.24 (6.1)	1.20 (30.5)	0.50 (12.7)	1.75 (44.5)	94	
54879BE	700 kcmil	1,325/24, 535 kcmil	½	5.83 (148.1)	3.00 (76.2)	1.80 (45.7)	0.24 (6.1)	1.25 (31.8)	0.50 (12.7)	1.75 (44.5)	99	Pink
256-30695-1222	750 kcmil	1325/24, 535 kcmil	⅜	5.25 (133.4)	2.06 (52.3)	1.94 (49.3)	0.27 (6.7)	1.33 (33.8)	0.50 (12.7)	1.00 (25.4)	106	Black
256-30695-1222P	750 kcmil		⅜	5.25 (133.4)	2.06 (52.3)	1.94 (49.3)	0.27 (6.7)	1.33 (33.8)	0.50 (12.7)	1.00 (25.4)	106	
54880BE	750 kcmil		½	6.20 (157.5)	3.00 (76.2)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.50 (12.7)	1.75 (44.5)	106	
58884BE	–	1,600/24, 646 kcmil	½	6.16 (156.5)	3.00 (76.2)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.50 (12.7)	1.75 (44.5)	106	
58826BE	900 kcmil	1,925/24, 777 kcmil	½	6.74 (171.2)	3.00 (76.2)	2.18 (55.4)	0.31 (7.9)	1.50 (38.1)	0.50 (12.7)	1.75 (44.5)	115	Yellow
54826BE	1,000 kcmil	–	⅜	6.49 (164.8)	2.80 (71.1)	2.27 (57.7)	0.30 (7.6)	1.55 (39.4)	0.38 (9.7)	1.00 (25.4)	125	–
54882BE	1,000 kcmil		½	6.66 (169.2)	3.00 (76.2)	2.27 (57.7)	0.30 (7.6)	1.55 (39.4)	0.38 (9.7)	1.75 (44.5)	125	
54888BE	1,250 kcmil		½	7.88 (200.2)	3.00 (76.2)	2.42 (61.5)	0.35 (8.9)	1.67 (42.4)	0.63 (16.0)	1.75 (44.5)	140	

Diagrams



[x] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

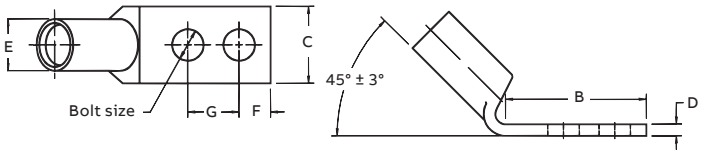
Compression connectors for copper conductors

Peep holes available – Add suffix PH
Material – High-conductivity wrought copper
Finish – Electro tin plated

Two-hole lugs – 45° Long barrel certified to 600 V and recommended up to 35 kV[¥]

	Wire size			Dimensions in. (mm)							
Cat no.	**Code cable**	**Flex cable classes G, H, I, K, M**	**Bolt size**	**B**	**C**	**D**	**E**	**F**	**G**	**Die code**	**Colour code**
256-31426-3SPHUF	#14–10 AWG	–	#10	1.25 (31.75)	0.37 (9.4)	0.07 (1.8)	0.20 (5.1)	0.22 (5.6)	0.50 – 0.63 (12.7 – 16.0)	ERG2002	Yellow
256-30695-1298UF	#14–10 AWG		¼	1.22 (31.0)	0.50 (12.7)	0.05 (1.3)	0.20 (5.1)	0.25 (6.4)	0.63 (16.0)	ERG2002	
54850BEUF	#8 AWG	#8 AWG 37/24 #8 Weld	¼	1.89 (48.0)	0.42 (10.7)	0.07 (17.8)	0.26 (6.6)	0.25 (6.4)	0.63 (16.0)	21	Red
54851BEUF	#8 AWG		¼	1.29 (32.8)	0.47 (11.9)	0.06 (15.2)	0.26 (6.6)	0.25 (6.4)	0.75 (19.1)	21	
54851BEUF0612	#8 AWG		⅜	1.42 (36.1)	0.47 (11.9)	0.06 (15.2)	0.26 (6.6)	0.38 (9.7)	0.75 (19.1)	21	
54852BEUF	#6 AWG	#6 AWG 61/24 #6 Weld	¼	1.28 (32.5)	0.44 (11.2)	0.08 (20.3)	0.30 (7.6)	0.25 (6.4)	0.63 (16.0)	24	Blue
54852BEUF0416	#6 AWG		¼	1.63 (41.4)	0.43 (10.9)	0.08 (20.3)	0.30 (7.6)	0.25 (6.4)	1.00 (25.4)	24	
54852BEUF0412	#6 AWG		¼	1.43 (36.3)	0.43 (10.9)	0.08 (20.3)	0.30 (7.6)	0.25 (6.4)	0.75 (19.1)	24	
54852BEUF0616	#6 AWG		⅜	1.93 (49.0)	0.59 (15.0)	0.06 (15.2)	0.30 (7.6)	0.38 (9.7)	1.00 (25.4)	24	
54852BEUF0828	#6 AWG		½	3.00 (76.2)	0.88 (22.4)	0.11 (2.8)	0.30 (7.6)	0.50 (12.7)	1.75 (44.5)	24	
54854BEUF	#4 AWG	#5 AWG 91/24 #4 Weld	¼	1.19 (30.2)	0.52 (13.2)	0.10 (2.5)	0.37 (9.4)	0.25 (6.4)	0.63 (16.0)	29	Grey
54854BEUF0412	#4 AWG		¼	1.31 (33.3)	0.56 (14.2)	0.09 (2.3)	0.37 (9.4)	0.25 (6.4)	0.75 (19.1)	29	
54854BEUF0416	#4 AWG		¼	1.88 (47.8)	0.58 (14.7)	0.09 (2.3)	0.37 (9.4)	0.38 (9.7)	1.00 (25.4)	29	
54854BEUF0516	#4 AWG		5/16	1.75 (44.5)	0.56 (14.2)	0.10 (2.5)	0.37 (9.4)	0.63 (16.0)	1.00 (25.4)	29	
54854BEUF0616	#4 AWG		⅜	1.98 (50.3)	0.59 (15.0)	0.09 (2.3)	0.37 (9.4)	0.38 (9.7)	1.00 (25.4)	29	
54854BEUF0828	#4 AWG		½	3.00 (76.2)	0.88 (22.4)	0.09 (2.3)	0.37 (9.4)	0.50 (12.7)	1.75 (44.5)	29	
54855BEUF0416	#2–3 AWG	#3 AWG 125/24	¼	1.88 (47.8)	0.67 (17.0)	0.09 (2.3)	0.41 (10.4)	0.38 (9.7)	1.00 (25.4)	33	Brown
54855BEUF	#2–3 AWG		¼	1.28 (32.5)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.25 (6.4)	0.63 (16.0)	33	
54855BEUF0412	#2–3 AWG		¼	1.35 (34.3)	0.68 (17.3)	0.11 (2.8)	0.41 (10.4)	0.25 (6.4)	0.75 (19.1)	33	
54856BEUF	#2–3 AWG		5/16	1.63 (41.4)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.38 (9.7)	0.75 (19.1)	33	
54810BEUF	#2–3 AWG		⅜	2.57 (65.3)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.38 (9.7)	1.75 (44.5)	33	
54810BEUF0616	#2–3 AWG		⅜	1.94 (49.3)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.38 (9.7)	1.00 (25.4)	33	
54811BEUF	#2–3 AWG		½	3.00 (76.2)	0.88 (22.4)	0.11 (2.8)	0.41 (10.4)	0.50 (12.7)	1.75 (44.5)	33	
54809BEUF	#1 AWG	#2 AWG 150/24 175/24 #2 Weld	¼	1.19 (30.2)	0.67 (17.0)	0.11 (2.8)	0.47 (11.9)	0.25 (6.4)	0.63 (16.0)	37	Green
54812BEUF	#1 AWG		¼	1.40 (35.6)	0.67 (17.0)	0.11 (2.8)	0.47 (11.9)	0.25 (6.4)	0.75 (19.1)	37	
54858BEUF	#1 AWG		5/16	1.63 (41.4)	0.67 (17.0)	0.11 (2.8)	0.47 (11.9)	0.63 (16.0)	0.88 (22.4)	37	
54857BEUF0616	#1 AWG		⅜	1.98 (50.3)	0.67 (17.0)	0.11 (2.8)	0.47 (11.9)	0.38 (9.7)	1.00 (25.4)	37	
54857BEUF	#1 AWG		½	3.00 (76.2)	0.88 (22.4)	0.11 (2.8)	0.47 (11.9)	0.50 (12.7)	1.75 (44.5)	37	

Diagrams



[¥] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

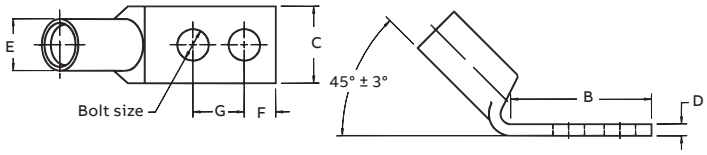
Compression connectors for copper conductors

Peep holes available – Add suffix PH
Material – High-conductivity wrought copper
Finish – Electro tin plated

Two-hole lugs – 45° Long barrel certified to 600 V and recommended up to 35 kV[¥] (continued)

	Wire size			Dimensions in. (mm)							
Cat no.	Code cable	Flex cable classes G, H, I, K, M	Bolt size	B	C	D	E	F	G	Die code	Colour code
54859BEUF0416	1/0 AWG	1 AWG 225/24	¼	1.88 (47.8)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	1.00 (25.4)	42	Pink
54859BEUF0416PH	1/0 AWG		¼	1.88 (47.8)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	1.00 (25.4)	42	
54859BEUF	1/0 AWG		¼	1.19 (30.2)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.25 (6.4)	0.38 (9.7)	42	
54813BEUF	1/0 AWG		¼	1.38 (35.1)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.25 (6.4)	0.75 (19.1)	42	
54860BEUF	1/0 AWG		5/16	1.63 (41.4)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	0.88 (22.4)	42	
54860BEUF0616	1/0 AWG		⅜	1.98 (50.3)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	1.00 (25.4)	42	
54860BEUF0616PH	1/0 AWG		⅜	1.93 (49.0)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	1.00 (25.4)	42	
54860BEUF0828	1/0 AWG		½	3.00 (76.0)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.63 (16.0)	1.75 (44.5)	42	
54814BEUF	2/0 AWG	1/0 AWG 275/24 1/0 Weld	¼	1.25 (31.8)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.25 (6.4)	0.63 (16.0)	45	Black
54814BEUF0412	2/0 AWG		¼	1.31 (33.3)	0.81 (20.6)	0.13 (3.3)	0.57 (14.5)	0.25 (6.4)	0.75 (19.1)	45	
54862BEUF0616	2/0 AWG		⅜	1.81 (46.0)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.38 (9.7)	1.00 (25.4)	45	
54862BEUF0616PH	2/0 AWG		⅜	1.81 (46.0)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.38 (9.7)	1.00 (25.4)	45	
54862BEUF	2/0 AWG		½	2.81 (71.4)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.50 (12.7)	1.75 (44.5)	45	
54815BEUF	3/0 AWG	2/0 AWG 325/24 2/0 Weld	¼	1.45 (36.8)	0.92 (23.4)	0.13 (3.3)	0.63 (16.0)	0.25 (6.4)	0.75 (19.1)	50	Orange
54816BEUF	3/0 AWG		⅜	0.63 (41.4)	0.92 (23.4)	0.13 (3.3)	0.63 (16.0)	0.38 (9.7)	1.00 (25.4)	50	
54864BEUF	3/0 AWG		½	3.00 (76.2)	0.94 (23.9)	0.13 (3.3)	0.63 (16.0)	0.50 (12.7)	1.75 (44.5)	50	
54817BEUF	4/0 AWG	3/0 AWG 450/24 3/0 Weld	¼	1.38 (35.1)	1.03 (33.0)	0.14 (3.6)	0.70 (17.8)	0.25 (6.4)	0.75 (19.1)	54	Purple
54818BEUF	4/0 AWG		⅜	2.63 (66.8)	1.03 (33.0)	0.14 (3.6)	0.70 (17.8)	0.38 (9.7)	1.75 (44.5)	54	
54818BEUF0616	4/0 AWG		⅜	1.81 (46.0)	1.03 (33.0)	0.14 (3.6)	0.70 (17.8)	0.38 (9.7)	1.00 (25.4)	54	
54818BEUF0616PH	4/0 AWG		⅜	1.88 (47.8)	1.03 (33.0)	0.14 (3.6)	0.70 (17.8)	0.38 (9.7)	1.00 (25.4)	54	
54866BEUF	4/0 AWG		½	3.00 (76.2)	1.03 (33.0)	0.14 (3.6)	0.70 (17.8)	0.50 (12.7)	1.75 (44.5)	54	
54868BEUF0616	250 kcmil	4/0 AWG 550/24 4/0 Weld	⅜	1.93 (49.0)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.38 (9.7)	1.00 (25.4)	62	Yellow
54868BEUF0616PH	250 kcmil		⅝	1.93 (49.0)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.38 (9.7)	1.00 (25.4)	62	
54868BEUF	250 kcmil		½	3.00 (76.2)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.50 (12.7)	1.75 (44.5)	62	
54819BEUF	300 kcmil	250 kcmil 650/24 = 262 kcmil	⅜	2.80 (71.1)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.38 (9.7)	1.00 (25.4)	66	White
54870BEUF	300 kcmil		½	3.00 (76.2)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.50 (12.7)	1.75 (44.5)	66	
54820BEUF	350 kcmil	650/24 262 kcmil	¼	1.93 (49.0)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.25 (6.4)	0.75 (19.1)	71	Red
54872BEUF0616	350 kcmil		⅜	1.93 (49.0)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.38 (9.7)	1.00 (25.4)	71	
54872BEUF0616PH	350 kcmil		⅜	1.93 (49.0)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.38 (9.7)	1.00 (25.4)	71	
54872BEUF	350 kcmil		½	3.00 (76.2)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.50 (12.7)	1.75 (44.5)	71	

Diagrams



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For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

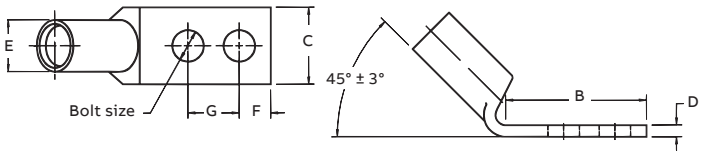
Compression connectors for copper conductors

Peep holes available – Add suffix PH
Material – High-conductivity wrought copper
Finish – Electro tin plated

Two-hole lugs – 45° Long barrel certified to 600 V and recommended up to 35 kV[¥] (continued)

	Wire size			Dimensions in. (mm)							
Cat no.	Code cable	Flex cable classes G, H, I, K, M	Bolt size	B	C	D	E	F	G	Die code	Colour code
54822BEUF	400 kcmil	775/24 313 kcmil	¼	1.93 (49.0)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.25 (6.4)	0.75 (19.1)	76	Blue
54821BEUF	400 kcmil		⅜	1.93 (49.0)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.38 (9.7)	1.00 (25.4)	76	
54874BEUF	400 kcmil		½	3.00 (76.2)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.50 (12.7)	1.75 (44.5)	76	
54823BEUF	500 kcmil	400 kcmil 925/24 350/373 kcmil	¼	1.93 (49.0)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.25 (6.4)	0.75 (19.1)	87	Brown
54876BEUF0616	500 kcmil		⅜	1.93 (49.0)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.38 (9.7)	1.00 (25.4)	87	
54876BEUF0616PH	500 kcmil		⅜	1.93 (49.0)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.38 (9.7)	1.00 (25.4)	87	
54876BEUF	500 kcmil		½	3.00 (76.2)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.50 (12.7)	1.75 (44.5)	87	
54824BEUF	600 kcmil	1,100/24 444 kcmil	⅜	2.80 (71.1)	1.75 (44.5)	0.24 (6.1)	1.20 (27.9)	0.38 (9.7)	1.00 (25.4)	94	Green
54878BEUF	600 kcmil		½	3.00 (76.2)	1.75 (44.5)	0.24 (6.1)	1.20 (27.9)	0.50 (12.7)	1.75 (44.5)	94	
54880BEUF0616	750 kcmil	1,325/24 535 kcmil	⅜	2.06 (52.3)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.50 (12.7)	1.00 (25.4)	106	Black
54880BEUF0616PH	750 kcmil		⅜	2.06 (52.3)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.50 (12.7)	1.00 (25.4)	106	
54880BEUF	750 kcmil		½	3.00 (76.2)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.50 (12.7)	1.75 (44.5)	106	
58884BEUF	–	1,600/24, 646 kcmil	½	3.00 (76.2)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.50 (12.7)	1.75 (44.5)	106	
58826BEUF	900 kcmil	1,925/24 750/777 kcmil	½	3.00 (76.2)	2.18 (55.4)	0.31 (7.9)	1.50 (38.1)	0.50 (12.7)	1.75 (44.5)	115	Yellow
54826BEUF	1,000 kcmil	–	⅜	2.80 (71.1)	2.27 (57.7)	0.30 (7.6)	1.55 (39.4)	0.38 (9.7)	1.00 (25.4)	125	–
54882BEUF	1,000 kcmil		½	3.00 (76.2)	2.27 (57.7)	0.30 (7.6)	1.55 (39.4)	0.50 (12.7)	1.75 (44.5)	125	

Diagrams



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For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

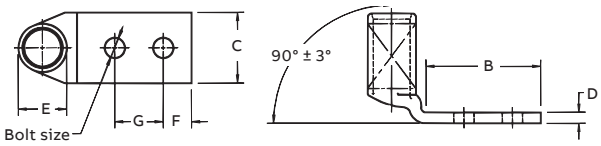
Compression connectors for copper conductors

Peep holes available – Add suffix PH
Material – High-conductivity wrought copper
Finish – Electro tin plated

Two-hole lugs – 90° Long barrel certified to 600 V and recommended up to 35 kV¥

Cat no.	Wire size: Code cable	Wire size: Flex cable classes G, H, I, K, M	Bolt size	Dimensions in. (mm): B	C	D	E	F	G	Die code	Colour code
54850BEUB	#8 AWG	#8 AWG 37/24 #8 Weld	¼	1.89 (48.0)	0.42 (10.7)	0.07 (1.8)	0.26 (6.6)	0.21 (5.3)	0.63–0.75 (16.0–19.1)	21	Red
54851BEUB	#8 AWG		¼	0.29 (32.8)	0.47 (11.9)	0.06 (1.5)	0.26 (6.6)	0.25 (6.4)	0.75 (19.1)	21	
54851BEUB0616	#8 AWG		⅜	2.10 (53.3)	0.56 (14.2)	0.06 (1.5)	0.26 (6.6)	0.38 (9.7)	1.00 (25.4)	21	
54852BEUB	#6 AWG	#6 AWG 61/24 #6 Weld	¼	1.28 (32.5)	0.44 (11.2)	0.08 (2.0)	0.30 (7.6)	0.25 (6.4)	0.63 (16.0)	24	Blue
54852BEUB0412	#6 AWG		¼	1.43 (36.3)	0.43 (10.9)	0.08 (2.0)	0.30 (7.6)	0.25 (6.4)	0.75 (19.1)	24	
54852BEUB0616	#6 AWG		⅜	1.93 (49.0)	0.59 (15.0)	0.06 (1.5)	0.30 (7.6)	0.38 (9.7)	1.00 (25.4)	24	
54852BEUB0828	#6 AWG		½	3.00 (76.2)	0.88 (22.4)	0.11 (2.8)	0.30 (7.6)	0.50 (12.7)	1.75 (44.5)	24	
54854BEUB	#4 AWG	#5 AWG 91/24 #4 Weld	¼	1.19 (30.2)	0.52 (13.2)	0.10 (2.5)	0.37 (9.4)	0.25 (6.4)	0.63 (16.0)	29	Grey
54854BEUB0412	#4 AWG		¼	1.31 (33.3)	0.56 (14.2)	0.09 (2.3)	0.37 (9.4)	0.25 (6.4)	0.75 (19.1)	29	
54854BEUB0416	#4 AWG		¼	1.88 (47.8)	0.58 (14.7)	0.09 (2.3)	0.37 (9.4)	0.38 (9.7)	1.00 (25.4)	29	
54854BEUB0516	#4 AWG		5/16	1.75 (44.5)	0.56 (14.2)	0.10 (2.5)	0.37 (9.4)	0.38 (9.7)	1.00 (25.4)	29	
54854BEUB0616	#4 AWG		⅜	1.98 (50.3)	0.59 (15.0)	0.09 (2.3)	0.37 (9.4)	0.38 (9.7)	1.00 (25.4)	29	
54854BEUB0828	#4 AWG		½	3.00 (76.2)	0.88 (22.4)	0.09 (2.3)	0.37 (9.4)	0.50 (12.7)	1.75 (44.5)	29	
54858BEUB0416	#2–3AWG	#3 AWG 125/24	¼	1.88 (47.8)	0.67 (17.0)	0.09 (2.3)	0.41 (10.4)	0.38 (9.7)	1.00 (25.4)	33	Brown
54855BEUB	#2–3AWG		¼	1.28 (32.5)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.25 (6.4)	0.63 (16.0)	33	
54855BEUB0412	#2–3AWG		¼	1.35 (34.3)	0.68 (17.3)	0.11 (2.8)	0.41 (10.4)	0.25 (6.4)	0.75 (19.1)	33	
54856BEUB	#2–3AWG		5/16	1.63 (41.4)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.38 (9.7)	0.75 (19.1)	33	
54810BEUB	#2–3AWG		⅜	2.57 (65.3)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.38 (9.7)	1.75 (44.5)	33	
54810BEUB0616	#2–3AWG		⅜	1.94 (49.3)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.38 (9.7)	1.00 (25.4)	33	
54811BEUB	#2–3AWG		½	3.00 (76.2)	0.88 (22.4)	0.11 (2.8)	0.41 (10.4)	0.50 (12.7)	0.75 (19.1)	33	
54809BEUB	#1 AWG	#2 AWG 150/24 175/24 #2 Weld	¼	1.19 (30.2)	0.67 (17.0)	0.11 (2.8)	0.47 (11.9)	0.25 (6.4)	0.63 (16.0)	37	Green
54812BEUB	#1 AWG		¼	1.40 (35.6)	0.67 (17.0)	0.11 (2.8)	0.47 (11.9)	0.25 (6.4)	0.75 (19.1)	37	
54858BEUB	#1 AWG		5/16	1.63 (41.4)	0.67 (17.0)	0.11 (2.8)	0.47 (11.9)	0.38 (9.7)	0.88 (22.4)	37	
54857BEUB0616	#1 AWG		⅜	1.98 (50.3)	0.67 (17.0)	0.11 (2.8)	0.47 (11.9)	0.38 (9.7)	1.00 (25.4)	37	
54857BEUB	#1 AWG		½	3.00 (76.2)	0.88 (22.4)	0.11 (2.8)	0.47 (11.9)	0.50 (12.7)	1.75 (44.5)	37	
54859BEUB0416	1/0 AWG	1 AWG 225/24	¼	1.88 (47.8)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	1.00 (25.4)	42	Pink
54859BEUB0416PH	1/0 AWG		¼	1.88 (47.8)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	1.00 (25.4)	42	
54859BEUB	1/0 AWG		¼	1.19 (30.2)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.25 (6.4)	0.63 (16.0)	42	
54813BEUB	1/0 AWG		¼	1.38 (35.1)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.25 (6.4)	0.75 (19.1)	42	
54860BEUB	1/0 AWG		5/16	1.63 (41.4)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	0.88 (22.4)	42	
54860BEUB0616	1/0 AWG		⅜	1.98 (50.3)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	1.00 (25.4)	42	
54860BEUB0828	1/0 AWG		½	3.00 (76.2)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	1.75 (44.5)	42	
54814BEUB	2/0 AWG	1/0 AWG 275/24 1/0 Weld	¼	1.25 (31.8)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.25 (6.4)	0.63 (16.0)	45	Black
54814BEUB0412	2/0 AWG		¼	1.31 (33.3)	0.81 (20.6)	0.13 (3.3)	0.57 (14.5)	0.25 (6.4)	0.75 (19.1)	45	
54862BEUB0616	2/0 AWG		⅜	1.81 (46.0)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.38 (9.7)	1.00 (25.4)	45	
54862BEUB0616PH	2/0 AWG		⅜	1.81 (46.0)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.38 (9.7)	1.00 (25.4)	45	
54862BEUB	2/0 AWG		½	2.81 (71.4)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.50 (12.7)	0.75 (19.1)	45	

Diagrams



¥ For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

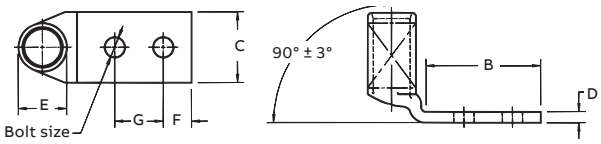
Compression connectors for copper conductors

Peep holes available – Add suffix PH
Material – High-conductivity wrought copper
Finish – Electro tin plated

Two-hole lugs – 90° Long barrel certified to 600 V and recommended up to 35 kV[¥] (continued)

	Wire size			Dimensions in. (mm)							
Cat no.	Code cable	Flex cable classes G, H, I, K, M	Bolt size	B	C	D	E	F	G	Die code	Colour code
54815BEUB	3/0 AWG	2/0 AWG 325/24 2/0 Weld	¼	1.45 (36.8)	0.92 (23.4)	0.13 (3.3)	0.63 (16.0)	0.25 (6.4)	0.75 (19.1)	50	Orange
54816BEUB	3/0 AWG		⅜	0.63 (41.4)	0.92 (23.4)	0.13 (3.3)	0.63 (16.0)	0.38 (9.7)	1.00 (25.4)	50	
54864BEUB	3/0 AWG		½	3.00 (76.2)	0.94 (23.9)	0.13 (3.3)	0.63 (16.0)	0.50 (12.7)	1.75 (44.5)	50	
54817BEUB	4/0 AWG	3/0 AWG 450/24 3/0 Weld	¼	1.38 (35.1)	1.03 (33.0)	0.14 (3.6)	0.70 (17.8)	0.25 (6.4)	0.75 (19.1)	54	Purple
54818BEUB	4/0 AWG		⅜	2.63 (66.8)	1.03 (33.0)	0.14 (3.6)	0.70 (17.8)	0.38 (9.7)	1.75 (44.5)	54	
54818BEUB0616	4/0 AWG		⅜	1.81 (46.0)	1.03 (33.0)	0.14 (3.6)	0.70 (17.8)	0.38 (9.7)	1.00 (25.4)	54	
54818BEUB0616PH	4/0 AWG		⅜	1.88 (47.8)	1.03 (33.0)	0.14 (3.6)	0.70 (17.8)	0.38 (9.7)	1.00 (25.4)	54	
54866BEUB	4/0 AWG		½	3.00 (76.2)	1.03 (33.0)	0.14 (3.6)	0.70 (17.8)	0.50 (12.7)	1.75 (44.5)	54	
54868BEUB0616	250 kcmil	4/0 AWG 550/24 4/0 Weld	⅜	1.93 (49.0)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.38 (9.7)	1.00 (25.4)	62	Yellow
54868BEUB0616PH	250 kcmil		⅜	1.93 (49.0)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.38 (9.7)	1.00 (25.4)	62	
54868BEUB	250 kcmil		½	3.00 (76.2)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.50 (12.7)	1.75 (44.5)	62	
54819BEUB	300 kcmil	250 kcmil 650/24 = 262 kcmil	⅜	2.80 (71.1)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.38 (9.7)	1.00 (25.4)	66	White
54870BEUB	300 kcmil		2	3.00 (76.2)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.50 (21.6)	1.75 (44.5)	66	
54820BEUB	350 kcmil	650/24 262 kcmil	¼	1.93 (49.0)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.25 (6.4)	0.75 (19.1)	71	Red
54872BEUB0616	350 kcmil		⅜	1.93 (49.0)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.38 (9.7)	1.00 (25.4)	71	
54872BEUB0616PH	350 kcmil		⅜	1.93 (49.0)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.38 (9.7)	1.00 (25.4)	71	
54872BEUB	350 kcmil		½	3.00 (76.2)	1.36 (34.5)	0.18 (4.6)	0.93 (23.6)	0.50 (21.6)	1.75 (44.5)	71	
54822BEUB	400 kcmil	775/24 313 kcmil	¼	1.93 (49.0)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.25 (6.4)	0.75 (19.1)	76	Blue
54821BEUB	400 kcmil		⅜	1.93 (49.0)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.38 (9.7)	1.00 (25.4)	76	
54874BEUB	400 kcmil		½	3.00 (76.2)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.50 (21.6)	1.75 (44.5)	76	
54823BEUB	500 kcmil	400 kcmil 925/24 350/373 kcmil	¼	1.94 (49.3)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.25 (6.4)	0.75 (19.1)	87	Brown
54823BEUB0616	500 kcmil		⅜	1.93 (49.0)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.38 (9.7)	1.00 (25.4)	87	
54876BEUB0616PH	500 kcmil		⅜	1.93 (49.0)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.38 (9.7)	1.00 (25.4)	87	
54876BEUB	500 kcmil		½	3.00 (76.2)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.50 (21.6)	1.75 (44.5)	87	
54824BEUB	600 kcmil	1,110/24, 444 kcmil	⅜	2.80 (71.1)	1.75 (44.5)	0.24 (6.1)	1.20 (30.5)	0.38 (9.7)	1.00 (25.4)	94	Green
54878BEUB	600 kcmil		½	3.00 (76.2)	1.75 (44.5)	0.24 (6.1)	1.20 (30.5)	0.50 (21.6)	1.75 (44.5)	94	
54880BEUB0616	750 kcmil	1,325/24 535 kcmil	⅜	2.06 (52.3)	1.94 (6.9)	0.27 (6.9)	1.33 (33.8)	0.50 (21.6)	1.00 (25.4)	106	Black
54880BEUB0616PH	750 kcmil		⅜	2.06 (52.3)	1.94 (6.9)	0.27 (6.9)	1.33 (33.8)	0.50 (21.6)	1.00 (25.4)	106	
54880BEUB	750 kcmil		½	3.00 (76.2)	1.94 (6.9)	0.27 (6.9)	1.33 (33.8)	0.50 (21.6)	1.75 (44.5)	106	
58884BEUB	–	1,600/24, 646 kcmil	½	3.00 (76.2)	1.94 (6.9)	0.27 (6.9)	1.33 (33.8)	0.50 (21.6)	1.75 (44.5)	106	
58826BEUB	900 kcmil	1,925/24 750/777 kcmil	½	3.00 (76.2)	2.18 (7.9)	0.31 (7.9)	1.50 (38.1)	0.50 (21.6)	1.75 (44.5)	115	Yellow
54826BEUB	1,000 kcmil	–	⅜	2.80 (71.1)	2.27 (7.6)	0.30 (7.6)	1.55 (39.4)	0.38 (9.7)	1.00 (25.4)	125	–
54882BEUB	1,000 kcmil		½	3.00 (76.2)	2.27 (7.6)	0.30 (7.6)	1.55 (39.4)	0.50 (21.6)	1.75 (44.5)	125	

Diagrams



[¥] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

Compression connectors for copper conductors

Narrow-tongue lugs – Ideal for confined-space terminations

To meet increasing demand for smaller components in today's panels and switchgear, ABB has expanded its line of Color-Keyed narrow-tongue lugs to include two-hole and angled lugs. These improved lugs have been precision engineered for consistency in width the entire length of the connector, from barrel to tongue, ensuring a reliable fit in confined-space applications.

- Narrow-width tongue and barrel, engineered for dimensional consistency the entire length of the lug
- Perfect for connections in limited-space applications
- High-conductivity copper construction
- Electrolytically tin-plated finish resists corrosion
- ABB Color-Keyed marking system makes connections and verification easy
- Double-chamfered barrel eases insertion of wire

Technical specifications

- Certified rating: 600 V
- Recommended rating: Up to 35 kV[¥]
- Material: 99% pure high-conductivity seamless wrought copper
- Finish: Electro tin plated
- Standards: UL listed, CSA certified and RoHS compliant

Ideal for use in:

- Panels
- Switchgear
- Molded-case circuit breakers
- Motor starters
- Other limited-space OEM applications

Now available in:

- One-hole
- Two-hole
- Straight
- 45° angled
- 90° angled

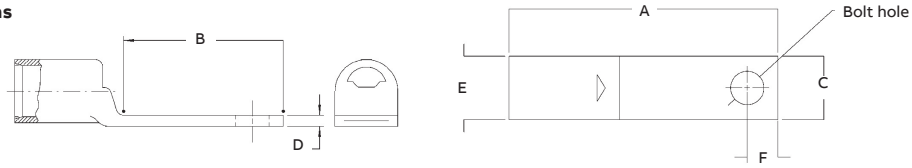
[¥] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements.

Compression connectors for copper conductors

Narrow-tongue copper lugs – One-hole, standard barrel certified to 600 V and recommended up to 35 kV[¥]

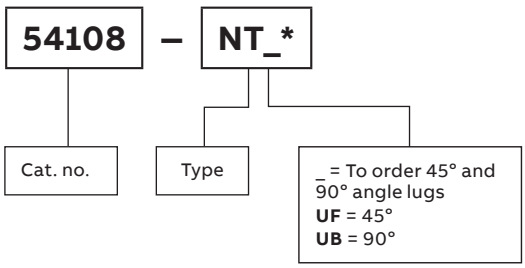
	Wire size			Dimensions in. (mm)							
Cat no.	Code cable	Flex cable classes G, H, I, K, M	Bolt size	A	B	C	D	E	F	Die code	Colour code
54138NT	#4 AWG	#5 AWG – 91/24	#10	1.31 (33.3)	0.56 (14.2)	0.37 (9.4)	0.10 (2.5)	0.37 (9.4)	0.25 (6.4)	29	Grey
54107NT	#2–3 AWG	#3 AWG – 125/24	¼	1.50 (38.1)	0.65 (16.5)	0.41 (10.4)	0.07 (1.8)	0.41 (10.4)	0.25 (6.4)	33	Brown
54108NT	#1 AWG	#2 AWG, 150, 175/24	¼	1.50 (38.1)	0.65 (16.5)	0.47 (11.9)	0.11 (2.8)	0.47 (11.9)	0.25 (6.4)	37	Green
54152NT	1/0 AWG	#1 AWG – 225/24	¼	1.60 (40.6)	0.65 (16.5)	0.52 (13.2)	0.13 (3.3)	0.52 (13.2)	0.25 (6.4)	42	Pink
54157NT	2/0 AWG	1/0 AWG – 275/24	¼	1.60 (40.6)	0.65 (16.5)	0.57 (14.5)	0.13 (3.3)	0.57 (14.5)	0.25 (6.4)	45	Black
54162NT	3/0 AWG	2/0 AWG – 325/24	¼	1.68 (42.7)	0.65 (16.5)	0.63 (16.0)	0.13 (3.3)	0.63 (16.0)	0.25 (6.4)	50	Orange
54167NT	4/0 AWG	3/0 AWG – 450/24	¼	1.90 (48.3)	0.65 (16.5)	0.70 (17.8)	0.14 (3.6)	0.70 (17.8)	0.25 (6.4)	54	Purple
54172NT	250 kcmil	4/0 AWG – 550/24	¼	2.00 (50.8)	0.65 (16.5)	0.77 (19.6)	0.14 (3.6)	0.77 (19.6)	0.25 (6.4)	62	Yellow
54178NT04	300 kcmil	650/24	¼	2.33 (59.2)	0.88 (22.4)	0.85 (21.6)	0.15 (3.8)	0.85 (21.6)	0.25 (6.4)	66	White
54115NT	350 kcmil	650/24	½	2.75 (69.9)	1.25 (31.8)	0.93 (23.6)	0.18 (4.6)	0.93 (23.6)	0.50 (12.7)	71H	Red
54115NT06	350 kcmil	650/24	⅜	2.50 (63.5)	1.00 (25.4)	0.93 (23.6)	0.18 (4.6)	0.93 (23.6)	0.38 (16.0)	71H	
54118NT	500 kcmil	925/24	½	3.25 (82.6)	1.25 (31.8)	1.10 (27.9)	0.22 (5.6)	1.10 (27.9)	0.50 (12.7)	87	Brown
54123NT08	750 kcmil	1,325/24	½	3.48 (88.4)	1.25 (31.8)	1.33 (33.8)	0.27 (6.9)	1.33 (33.8)	0.50 (12.7)	106H	Black
54123NT	750 kcmil	1,325/24	⅝	3.80 (96.5)	1.58 (40.1)	1.33 (33.8)	0.27 (6.9)	1.33 (33.8)	0.63 (16.0)	106H	

Diagrams



[¥] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements.

* Special lugs may have other catalogue number constructions. Please contact technical services.



Ordering information

Other options include silver plating (add SP to catalogue number), blind end (add BE to catalogue number) and peep holes (add PH to catalogue number).

Catalogue no. example:

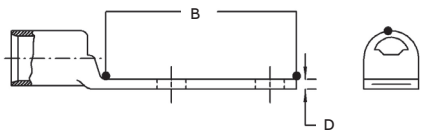
54108NTUB is a 90° angled one-hole narrow-tongue lug for #1 AWG.

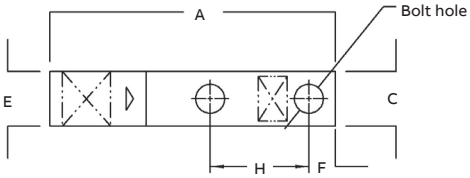
Compression connectors for copper conductors

Narrow-tongue copper lugs – Two-hole, standard barrel certified to 600 V and recommended up to 35 kV¥

	Wire size			Dimensions in. (mm)								
Cat no.	Code cable	Flex cable classes G, H, I, K, M	Bolt size	A	B	C	D	E	F	H	Die code	Colour code
54206NT0310	#4 AWG	# 5 AWG – 91/24	#10	1.88 (47.8)	1.13 (28.7)	0.37 (9.4)	0.10 (2.5)	0.37 (9.4)	0.25 (6.4)	0.63 (16.0)	29	Grey
54207NT	#2–3 AWG	#3 AWG – 125/24	¼	2.04 (61.0)	1.19 (30.2)	0.41 (10.4)	0.11 (2.8)	0.41 (10.4)	0.25 (6.4)	0.63 (16.0)	33	Brown
54207NT0412	#2–3 AWG	#3 AWG – 125/24	¼	2.16 (54.9)	1.31 (33.3)	0.41 (10.4)	0.11 (2.8)	0.41 (10.4)	0.25 (6.4)	0.75 (19.1)	33	
54207NT0416	#2–3 AWG	#3 AWG – 125/24	¼	2.41 (61.2)	1.56 (39.6)	0.41 (10.4)	0.11 (2.8)	0.41 (10.4)	0.25 (6.4)	1.00 (25.4)	33	
54208NT	#1 AWG	#2 AWG – 150, 175/24	¼	2.40 (61.0)	1.19 (30.2)	0.47 (11.9)	0.11 (2.8)	0.47 (11.9)	0.25 (6.4)	0.63 (16.0)	37	Green
54208NT0516	#1 AWG	#2 AWG – 150, 175/24	5/16	2.63 (66.8)	1.78 (45.2)	0.47 (11.9)	0.11 (2.8)	0.47 (11.9)	0.38 (9.7)	1.00 (25.4)	37	
54255NT	1/0 AWG	#1 AWG – 225/24	5/16	2.61 (66.3)	1.66 (42.2)	0.52 (13.2)	0.14 (3.6)	0.52 (13.2)	0.38 (9.7)	0.88 (22.4)	42	Pink
54261NT	2/0 AWG	1/0 AWG – 275/24	5/16	2.66 (67.6)	1.66 (42.2)	0.57 (14.5)	0.14 (3.6)	0.52 (13.2)	0.38 (9.7)	0.88 (22.4)	45	Black
54210NT	2/0 AWG	1/0 AWG – 275/24	⅜	2.82 (71.6)	1.82 (46.2)	0.57 (14.5)	0.14 (3.6)	0.52 (13.2)	0.38 (9.7)	1.00 (25.4)	45	
54266NT	3/0 AWG	2/0 AWG – 325/24	5/16	2.88 (73.2)	1.78 (45.2)	0.63 (16.0)	0.13 (3.3)	0.63 (16.0)	0.38 (9.7)	1.00 (25.4)	50	Orange
54211NT	3/0 AWG	2/0 AWG – 325/24	⅜	2.92 (74.2)	1.82 (46.2)	0.63 (16.0)	0.13 (3.3)	0.63 (16.0)	0.38 (9.7)	1.00 (25.4)	50	
54212NT	4/0 AWG	3/0 AWG – 450/24	⅜	3.07 (94.0)	1.82 (46.2)	0.70 (17.8)	0.14 (3.6)	0.70 (17.8)	0.38 (9.7)	1.00 (25.4)	54	Purple
54213NT	250 kcmil	4/0 AWG – 550/24	⅜	3.17 (80.5)	1.82 (46.2)	0.77 (19.6)	0.14 (3.6)	0.77 (19.6)	0.38 (9.7)	1.00 (25.4)	62	Yellow
54275NT	250 kcmil	4/0 AWG – 550/24	½	4.16 (105.7)	2.81 (71.4)	0.77 (19.6)	0.14 (3.6)	0.77 (19.6)	0.50 (12.7)	1.75 (44.5)	62	
54282NT	350 kcmil	650/24	½	4.36 (110.7)	2.81 (71.4)	0.93 (23.6)	0.18 (4.6)	0.93 (23.6)	0.50 (12.7)	1.75 (44.5)	71H	Red
54218NT	500 kcmil	925/24	⅜	4.57 (116.1)	2.57 (65.3)	1.10 (27.9)	0.22 (5.6)	1.10 (27.9)	0.38 (9.7)	1.75 (44.5)	87	Brown
54286NT	500 kcmil	925/24	½	4.81 (122.2)	2.81 (71.4)	1.10 (27.9)	0.22 (5.6)	1.10 (27.9)	0.50 (12.7)	1.75 (44.5)	87	
54878BENTPH	600 kcmil	1,100/24	½	5.83 (148.1)	3.00 (76.2)	1.20 (30.5)	0.24 (6.1)	1.20 (30.5)	0.50 (12.7)	1.75 (44.5)	94	Green
54223NT0628	750 kcmil	1,325/24	⅜	4.79 (121.7)	2.57 (65.3)	1.33 (33.8)	0.27 (6.9)	1.33 (33.8)	0.38 (9.7)	1.75 (44.5)	106H	Black
54223NT	750 kcmil	1,325/24	½	5.04 (137.2)	2.81 (71.4)	1.33 (33.8)	0.27 (6.9)	1.33 (33.8)	0.50 (12.7)	1.75 (44.5)	106H	
58884BENTPH	–	1,600/24	½	6.16 (156.5)	3.00 (76.2)	1.33 (33.8)	0.24 (6.1)	1.20 (30.5)	0.50 (12.7)	1.75 (44.5)	106H	

Diagrams





Catalogue numbers 54878BENTPH and 58884BENTPH include peep holes.
¥ For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements.

* Special lugs may have other catalogue number constructions. Please contact technical services.

54212 – **NT_***

- 54212 – Cat. no.
- NT – Type
- _ = To order 45° and 90° angle lugs
  UF = 45°
  UB = 90°

Ordering information
Other options include silver plating (add SP to catalogue number), blind end (add BE to catalogue number) and peep holes (add PH to catalogue number).

Catalogue no. example:
54212NTUB is a 90° angled one-hole narrow-tongue lug for #1 AWG.

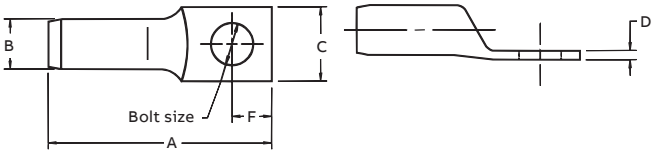
Compression connectors for copper conductors

These Color-Keyed connectors are recommended for up to 15 kV applications. Installed with standard ABB 14 and 15-ton compression tools with special rounding dies, the compression forms the connector and conductor into a solid mass to provide an optimum electrical bond between connector and conductor. The rounding die overlapped compressions provide a smooth round surface. This combined with the tapered barrel ends, addresses the control for potentially damaging electrical stresses of high voltages.

Copper one-hole lugs – Certified to 600 V and recommended up to 15 kV

	Cable size**		Dimensions in. (mm)						Installing tools 14 and 15 tons*		
Cat no.	Code cable	Stud size (in.)	A	B	C	D	E	F	Die set cat. no.	Strip length (in.)	Colour code
54440	#4 AWG	⅜	2.08 (71.1)	0.81 (20.6)	0.58 (14.7)	0.08 (2.0)	0.38 (9.7)	0.50 (12.7)	15CA29R	1 7/16	Grey
54443	#2 AWG	⅜	2.25 (57.2)	0.81 (20.6)	0.66 (16.8)	0.09 (2.3)	0.38 (9.7)	0.50 (12.7)	15CA33R	1 7/16	Brown
54448	#1 AWG	⅜	2.36 (59.9)	0.81 (20.6)	0.69 (17.5)	0.10 (2.5)	0.38 (9.7)	0.50 (12.7)	15CA37R	1 18/32	Green
54409	1/0 AWG	⅜	2.38 (60.5)	0.81 (20.6)	0.75 (19.1)	0.12 (3.0)	0.38 (9.7)	0.50 (12.7)	15CA42R	1⅝	Pink
54460	2/0 AWG	½	2.73 (69.3)	1.06 (40.6)	0.83 (21.1)	0.12 (3.0)	0.50 (12.7)	0.50 (12.7)	15CA45R	1⅝	Black
54465	3/0 AWG	½	2.81 (71.4)	1.06 (40.6)	0.94 (23.9)	0.12 (3.0)	0.50 (12.7)	0.50 (12.7)	15CA49R	1¾	Orange
54470	4/0 AWG	½	2.78 (70.6)	1.06 (40.6)	1.00 (25.4)	0.13 (3.3)	0.50 (12.7)	0.50 (12.7)	15CA54R	1 13/16	Purple
54413	250 kcmil	½	3.19 (81.0)	1.06 (40.6)	1.07 (43.2)	0.14 (3.6)	0.50 (12.7)	0.50 (12.7)	15CA60R	2 1/32	Ruby

Diagrams



**Cable size: Concentric (code) and compact strandings
*Cat. no. TB15500 die adaptor required for TBM15I
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

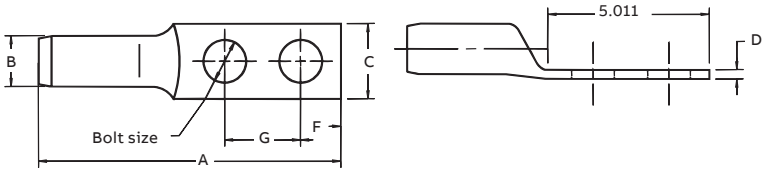
Compression connectors for copper conductors

These Color-Keyed connectors are recommended for up to 15 kV applications. Installed with standard ABB 14 and 15-ton compression tools with special rounding dies, the compression forms the connector and conductor into a solid mass to provide an optimum electrical bond between connector and conductor. The rounding die overlapped compressions provide a smooth round surface. This combined with the tapered barrel ends, addresses the control for potentially damaging electrical stresses of high voltages.

Copper two-hole lugs – Certified to 600 V and recommended up to 15 kV

	Cable size**		Dimensions in. (mm)							Installing tools 14 and 15 tons*		
Cat no.	Code cable	Stud size (in.)	A	B	C	D	E	F	G	Die set cat. no.	Strip length (in.)	Colour code
54475	1/0 AWG	⅜	3.56 (90.4)	0.53 (13.5)	0.77 (19.6)	0.12 (3.0)	0.38 (9.7)	0.38 (9.7)	1.00 (25.4)	15CA42R	1⅝	Pink
54476	2/0 AWG	½	4.67 (118.6)	0.56 (14.2)	0.83 (21.1)	0.12 (3.0)	0.50 (12.7)	0.50 (12.7)	1.75 (44.5)	15CA45R	1⅝	Black
54478	3/0 AWG	½	4.75 (120.7)	0.63 (16.0)	0.94 (23.9)	0.12 (3.0)	0.50 (12.7)	0.50 (12.7)	1.75 (44.5)	15CA49R	1¾	Orange
54479	4/0 AWG	½	4.64 (117.9)	0.69 (17.3)	1.00 (25.4)	0.13 (3.3)	0.50 (12.7)	0.50 (12.7)	1.75 (44.5)	15CA54R	1 13/16	Purple
54480	250 kcmil	½	5.17 (131.3)	0.75 (19.1)	1.08 (45.7)	0.14 (3.6)	0.50 (12.7)	0.50 (12.7)	1.75 (44.5)	15CA60R	2 1/32	Ruby
54481	300 kcmil	½	5.16 (131.1)	0.81 (20.6)	1.19 (30.2)	0.16 (4.1)	0.50 (12.7)	0.50 (12.7)	1.75 (44.5)	15CA66R	23/32	White
54482	350 kcmil	½	5.35 (135.9)	0.88 (22.1)	1.29 (32.8)	0.19 (4.8)	0.50 (12.7)	0.50 (12.7)	1.75 (44.5)	15CA71R	2 13/32	Red
54483	400 kcmil	½	5.35 (135.9)	0.92 (23.4)	1.36 (34.5)	0.18 (4.6)	0.50 (12.7)	0.50 (12.7)	1.75 (44.5)	15CA76R	2 13/32	Blue
54484	500 kcmil	½	5.60 (142.2)	1.06 (40.6)	1.54 (39.1)	0.23 (5.8)	0.50 (12.7)	0.50 (12.7)	1.75 (44.5)	15CA87R	2 13/32	Brown
54485***	600 kcmil	½	5.83 (148.1)	1.17 (29.7)	1.70 (43.2)	0.24 (6.1)	0.50 (12.7)	0.50 (12.7)	1.75 (44.5)	15CA84R	2 9/16	Green
54487***	750 kcmil	½	6.13 (155.7)	1.11 (27.9)	1.89 (48.0)	0.27 (6.9)	0.50 (12.7)	0.50 (12.7)	1.75 (44.5)	15CA106R	2¾	Black
54490	1,000 kcmil	½	6.60 (167.6)	1.50 (38.1)	2.18 (55.4)	0.31 (7.9)	0.50 (12.7)	0.50 (12.7)	1.75 (44.5)	15C125R•	2 29/32	–

Diagrams



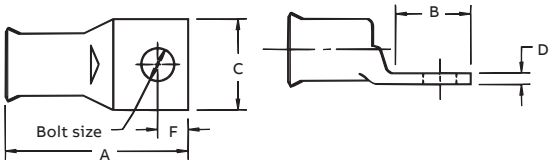
* Cat. no. TB15500 die adaptor required for TBM15I.
• No adaptor required – TBM15I only.
** Cable size: Concentric (code) and compact strandings.
14-Ton tool UL listing limited to 1/0 AWG and 500 kcmil cable sizes.
*** 15-Ton tool only for 500 kcmil and over.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

Compression connectors for copper conductors

Bell-ended lugs – Standard barrel certified to 600 V and recommended up to 35 kV¥

Cat. no.	Wire size (AWG or kcmil)* Code cable	Navy	Flex	Classes G	H	I	K	M	Bolt size (in.)	Dimensions in. (mm) A	B	C	D	F	Die code	Colour code
54104BS	8	23	37/24	8	8	–	8	8	#10	1.06 (40.6)	0.46 (11.7)	0.40 (10.2)	0.07 (1.8)	0.21 (5.3)	21	Red
54105BS	6	30	61/24	5	5	5	5	5	1/4	1.18 (30.0)	0.56 (14.2)	0.43 (10.9)	0.10 (2.5)	0.25 (6.4)	24	Blue
54106BS	4	40–50	91/24	5	5	5	5	5	1/4	1.28 (32.5)	0.56 (14.2)	0.56 (14.2)	0.10 (2.5)	0.25 (6.4)	29	Grey
54139BS	3–4	40–50	91/24	4	4	4	4	4	5/16	1.43 (36.3)	0.78 (19.8)	0.59 (19.8)	0.07 (1.8)	0.34 (8.6)	29	
54142BS	2	60	125/24	3	3	3	3	3	5/16	1.53 (38.9)	0.71 (18.0)	0.65 (16.5)	0.07 (1.8)	0.34 (8.6)	33	Brown
54147BS	1	75	150, 175/24	2	2	2	2	2	5/16	1.91 (48.5)	0.71 (18.0)	0.67 (17.0)	0.12 (3.0)	0.38 (9.7)	37	Green
54153BS	1/0	100	225/24	1	1	1	1	1	5/16	1.63 (41.4)	0.71 (18.0)	0.75 (19.1)	0.14 (3.6)	0.38 (9.7)	42	Pink
54110BS	2/0	125	275/24	1/0	1/0	1/0	1/0	1/0	3/8	1.88 (47.8)	0.81 (20.6)	0.81 (20.6)	0.14 (3.6)	0.38 (9.7)	45	Black
54165BS	3/0	150	325/24	2/0	2/0	2/0	2/0	2/0	1/2	2.21 (56.1)	1.06 (40.6)	0.93 (23.6)	0.14 (3.6)	0.50 (12.7)	50	Orange
54170BS	4/0	200	450/24	3/0	3/0	3/0	3/0	3/0	1/2	2.31 (58.7)	1.06 (40.6)	1.03 (33.0)	0.15 (3.8)	0.50 (12.7)	54	Purple
58165BS	250	–	550/24	4/0	4/0	4/0	4/0	4/0	1/2	2.46 (62.5)	1.12 (28.4)	1.25 (31.8)	0.18 (4.6)	0.50 (12.7)	62	Yellow
54114BS	300	300	650/24	250	250	250	250	–	1/2	2.46 (62.5)	1.12 (28.4)	1.25 (31.8)	0.18 (4.6)	0.50 (12.7)	66	White
5411440BS	300	300	650/24	250	250	250	250	–	1/2	2.38 (60.5)	1.12 (28.4)	1.25 (31.8)	0.18 (4.6)	0.50 (12.7)	66	
54115260BS	350	350	650/24	–	–	250	250	250	1/2	2.63 (66.8)	1.18 (30.0)	1.38 (35.1)	0.20 (5.1)	0.56 (14.2)	66	
54185BS	400	400	775/24	300	300	300	300	300	5/8	3.43 (87.1)	1.68 (42.7)	1.40 (35.6)	0.21 (5.3)	0.81 (20.6)	76	Blue
58177BS	500	–	925/24	400	400	400	400	400	5/8	3.00 (76.2)	1.31 (33.3)	1.63 (41.4)	0.25 (6.4)	0.81 (20.6)	80	–
58180BS	600	–	1,100/24	–	–	450	450	450	5/8	3.63 (92.2)	1.68 (42.7)	1.78 (45.2)	0.26 (6.6)	0.81 (20.6)	94	Green
54122BS	700	–	1,325/24	500	500	500	500	500	5/8	3.63 (92.2)	1.68 (42.7)	1.78 (45.2)	0.28 (7.1)	0.81 (20.6)	99	Pink
54123BS	750	–	–	600	–	–	–	550	5/8	3.63 (92.2)	1.68 (42.7)	1.93 (49.0)	0.31 (7.9)	0.81 (20.6)	106	Black
54124BS	800	800	–	–	–	–	600	–	5/8	3.81 (96.8)	1.68 (42.7)	2.00 (50.8)	0.31 (7.9)	0.63 (16.0)	107	Orange
54126BS	900	–	1,925/24	–	–	750	–	–	5/8	4.12 (104.6)	1.81 (46.0)	2.18 (55.4)	0.37 (9.4)	0.88 (22.4)	115	Yellow

Diagrams



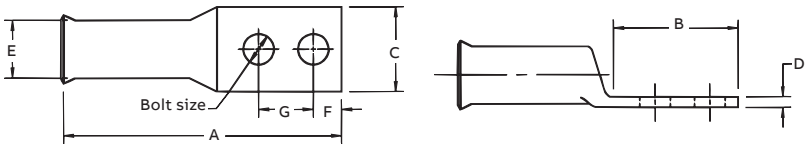
¥ For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements.
* Stranding will differ per class.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

Compression connectors for copper conductors

Bell-ended lugs – Standard barrel certified to 600 V and recommended up to 35 kV[¥]

Cat. no.	Wire size (AWG or kcmil)* Code cable	Navy	Flex	Classes G	H	I	K	M	Bolt size (in.)	Dimensions in. (mm) A	B	C	D	E	F	G	Die code	Colour code
54850BEBS	8	23	8	8	8	–	8	–	¼	2.19 (55.6)	1.88 (47.8)	0.42 (10.7)	0.07 (1.8)	0.26 (6.6)	0.25 (6.4)	0.63 (16.0)	21	Red
54851BEBS	8	23	8	8	8	–	8	–	¼	2.31 (58.7)	1.59 (32.8)	0.47 (11.9)	0.06 (1.5)	0.26 (6.6)	0.25 (6.4)	0.75 (19.1)	21	
54851BE0616BS	8	23	8	8	8	–	8	–	⅜	3.00 (76.2)	2.10 (53.3)	0.56 (14.2)	0.06 (1.5)	0.26 (6.6)	0.38 (9.7)	1.00 (25.4)	21	
54852BE0616BS	6	30	6	5	5	5	5	–	⅜	2.93 (74.4)	1.93 (49.0)	0.59 (15.0)	0.06 (1.5)	0.30 (7.6)	0.38 (9.7)	1.00 (25.4)	24	Blue
54852BEBS	6	30	6	5	5	5	5	–	¼	2.28 (57.9)	1.28 (32.5)	0.44 (11.2)	0.08 (2.0)	0.30 (7.6)	0.25 (6.4)	0.63 (16.0)	24	
54852BE0412BS	6	30	6	5	5	5	5	–	¼	2.43 (61.7)	1.43 (36.3)	0.43 (10.9)	0.07 (1.8)	0.30 (7.6)	0.25 (6.4)	0.75 (19.1)	24	
54854BEBS	4–3	40–50	5	5	5	5	5	–	¼	2.31 (58.7)	1.19 (30.2)	0.52 (13.2)	0.10 (2.5)	0.37 (9.4)	0.25 (6.4)	0.63 (16.0)	29	Grey
54854BE0412BS	4–3	40–50	5	5	5	5	5	–	¼	2.31 (58.7)	1.31 (33.3)	0.56 (14.2)	0.09 (2.3)	0.37 (9.4)	0.25 (6.4)	0.75 (19.1)	29	
54854BE0616BS	4–3	40–50	5	5	5	5	5	–	⅜	3.13 (79.5)	1.98 (50.3)	0.59 (15.0)	0.09 (2.3)	0.37 (9.4)	0.38 (9.7)	1.00 (25.4)	29	
54855BE0412BS	2	60	3	3	3	3	3	3	¼	2.63 (66.8)	1.35 (34.3)	0.68 (17.3)	0.11 (2.8)	0.41 (10.4)	0.25 (6.4)	0.75 (19.1)	33	Brown
54855BEBS	2	60	3	3	3	3	3	3	¼	2.43 (61.7)	1.28 (32.5)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.25 (6.4)	0.63 (16.0)	33	
54856BEBS	2	60	3	3	3	3	3	3	3/16	2.78 (70.6)	1.63 (41.4)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.38 (9.7)	0.75 (19.1)	33	
54810BE0616BS	2	60	3	3	3	3	3	3	⅜	3.08 (96.5)	1.94 (49.3)	0.59 (15.0)	0.11 (2.8)	0.41 (10.4)	0.38 (9.7)	1.00 (25.4)	33	
54811BEBS	2	60	3	3	3	3	3	3	½	4.28 (108.7)	3.00 (76.2)	0.88 (22.4)	0.09 (2.3)	0.41 (10.4)	0.50 (12.7)	1.75 (44.5)	33	
54809BEBS	1	75	2	2	2	2	2	2	¼	2.88 (73.2)	1.19 (30.2)	0.67 (17.0)	0.11 (2.8)	0.47 (11.9)	0.25 (6.4)	0.63 (16.0)	37	Green
54812BEBS	1	75	2	2	2	2	2	2	¼	2.75 (69.9)	1.40 (35.6)	0.67 (17.0)	0.11 (2.8)	0.47 (11.9)	0.25 (6.4)	0.75 (19.1)	37	
54858BEBS	1	75	2	2	2	2	2	2	5/16	2.97 (75.4)	1.63 (41.4)	0.67 (17.0)	0.11 (2.8)	0.47 (11.9)	0.38 (9.7)	0.88 (22.4)	37	
54857BEBS	1	75	2	2	2	2	2	2	½	4.43 (112.5)	3.00 (76.2)	0.88 (22.4)	0.10 (2.5)	0.47 (11.9)	0.50 (12.7)	1.75 (44.5)	37	

Diagrams



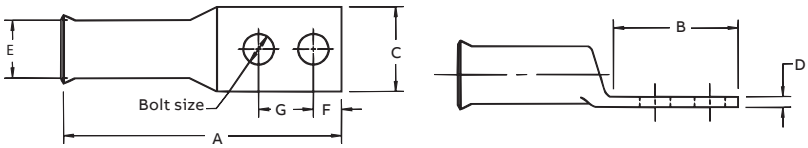
[¥] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements.
* Stranding will differ per class.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

Compression connectors for copper conductors

Bell-ended lugs – Standard barrel certified to 600 V and recommended up to 35 kV[x] (continued)

Cat. no.	Wire size (AWG or kcmil)* Code cable	Navy	Flex	Classes G	H	I	K	M	Bolt size (in.)	Dimensions in. (mm) A	B	C	D	E	F	G	Die code	Colour code
54859BEBS	1/0	100	1	1	1	1	1	1	¼	2.63 (66.8)	1.19 (30.2)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.25 (6.4)	0.63 (16.0)	42	Pink
54813BEBS	1/0	100	1	1	1	1	1	1	¼	2.71 (68.8)	1.38 (35.1)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.25 (6.4)	0.75 (19.1)	42	
54860BEBS	1/0	100	1	1	1	1	1	1	5/16	2.97 (75.4)	1.63 (41.4)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	0.88 (22.4)	42	
54860BE0616BS	1/0	100	1	1	1	1	1	1	⅜	3.23 (82.0)	1.93 (49.0)	0.75 (19.1)	0.13 (3.3)	0.52 (13.2)	0.38 (9.7)	1.00 (25.4)	42	
54814BEBS	2/0	250	1/0	1/0	1/0	1/0	1/0	1/0	¼	2.62 (66.5)	1.25 (31.8)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.25 (6.4)	0.63 (16.0)	45	Black
54814BE0412BS	2/0	250	1/0	1/0	1/0	1/0	1/0	1/0	¼	2.69 (68.3)	1.31 (33.3)	0.81 (20.6)	0.13 (3.3)	0.57 (14.5)	0.25 (6.4)	0.75 (19.1)	45	
54862BE0616BS	2/0	250	1/0	1/0	1/0	1/0	1/0	1/0	⅜	3.19 (81.0)	1.81 (46.0)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.38 (9.7)	1.00 (25.4)	45	
54862BEBS	2/0	250	1/0	1/0	1/0	1/0	1/0	1/0	½	2.20 (55.9)	2.81 (71.4)	0.83 (21.1)	0.13 (3.3)	0.57 (14.5)	0.50 (12.7)	1.75 (44.5)	45	
54815BEBS	3/0	150	2/0	2/0	2/0	2/0	2/0	2/0	¼	2.89 (73.4)	1.45 (36.8)	0.92 (23.4)	0.13 (3.3)	0.63 (16.0)	0.25 (6.4)	0.75 (19.1)	50	Orange
54816BEBS	3/0	150	2/0	2/0	2/0	2/0	2/0	2/0	⅜	3.25 (82.6)	1.63 (41.4)	0.92 (23.4)	0.13 (3.3)	0.63 (16.0)	0.38 (9.7)	1.00 (25.4)	50	
54864BEBS	3/0	150	2/0	2/0	2/0	2/0	2/0	2/0	½	4.45 (113.0)	3.00 (76.2)	0.92 (23.4)	0.13 (3.3)	0.63 (16.0)	0.50 (12.7)	1.75 (44.5)	50	
54817BEBS	4/0	200	3/0	3/0	3/0	3/0	3/0	3/0	¼	3.15 (80.0)	1.38 (35.1)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.50 (12.7)	0.75 (19.1)	54	Purple
54818BE0616BS	4/0	200	3/0	3/0	3/0	3/0	3/0	3/0	⅜	3.35 (85.1)	1.81 (46.0)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.25 (6.4)	1.00 (25.4)	54	
54818BEBS	4/0	200	3/0	3/0	3/0	3/0	3/0	3/0	⅜	4.38 (111.3)	2.63 (66.8)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.38 (9.7)	1.75 (44.5)	54	
54866BEBS	4/0	200	3/0	3/0	3/0	3/0	3/0	3/0	½	4.70 (119.4)	3.00 (76.2)	1.03 (26.2)	0.14 (3.6)	0.70 (17.8)	0.50 (12.7)	1.75 (44.5)	54	
54868BE0616BS	250	–	4/0	4/0	4/0	4/0	4/0	4/0	⅜	3.83 (97.3)	1.93 (49.0)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.50 (12.7)	1.00 (25.4)	62	Yellow
54868BEBS	250	–	4/0	4/0	4/0	4/0	4/0	4/0	½	4.92 (125.0)	3.00 (76.2)	1.13 (28.7)	0.14 (3.6)	0.77 (19.6)	0.50 (12.7)	1.75 (44.5)	62	

Diagrams



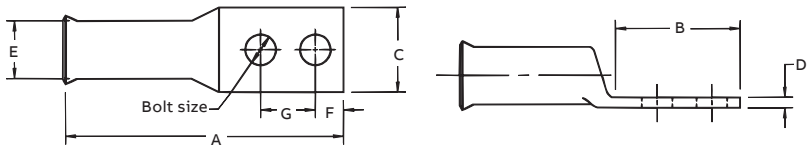
[x] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements.
* Stranding will differ per class.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

Compression connectors for copper conductors

Bell-ended lugs – Standard barrel certified to 600 V and recommended up to 35 kV[¥] (continued)

Cat. no.	Wire size (AWG or kcmil)* Code cable	Navy	Flex	Classes G	H	I	K	M	Bolt size (in.)	Dimensions in. (mm) A	B	C	D	E	F	G	Die code	Colour code
54819BEBS	300	300	262	250	250	250	250	–	⅜	5.04 (137.2)	2.80 (71.1)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.50 (12.7)	1.00 (25.4)	66	White
54870BEBS	300	300	262	250	250	250	250	–	½	5.23 (132.8)	3.00 (76.2)	1.25 (31.8)	0.15 (3.8)	0.85 (21.6)	0.50 (12.7)	1.75 (44.5)	66	
54822BEBS	400	400	313	300	300	300	300	–	¼	4.38 (111.3)	1.93 (49.0)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.63 (16.0)	0.75 (19.1)	76	Blue
54821BEBS	400	400	313	300	300	300	300	–	⅜	4.43 (112.5)	1.93 (49.0)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.63 (16.0)	1.00 (25.4)	76	
54874BEBS	400	400	313	300	300	300	300	–	½	5.51 (140.0)	3.00 (76.2)	1.41 (35.8)	0.17 (4.3)	0.96 (24.4)	0.63 (16.0)	1.75 (44.5)	76	
54823BEBS	500	–	373	400	400	400	400	–	¼	4.93 (125.2)	1.94 (49.3)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.50 (12.7)	0.75 (19.1)	87	Brown
54876BE0616BS	500	–	373	400	400	400	400	–	⅜	5.00 (127.0)	1.93 (49.0)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.50 (12.7)	1.00 (25.4)	87	
54876BEBS	500	–	373	400	400	400	400	–	½	6.00 (152.4)	3.00 (76.2)	1.61 (40.9)	0.22 (5.6)	1.10 (27.9)	0.50 (12.7)	1.75 (44.5)	87	
54824BEBS	–	–	444	–	–	450	450	–	⅜	5.70 (144.8)	2.80 (71.1)	1.75 (44.5)	0.24 (6.1)	1.20 (30.5)	0.63 (16.0)	1.00 (25.4)	94	Green
54878BEBS	–	–	444	–	–	450	450	–	½	5.83 (148.1)	3.00 (76.2)	1.75 (44.5)	0.24 (6.1)	1.20 (30.5)	0.63 (16.0)	1.75 (44.5)	94	
54879BEBS	700	–	535	–	–	–	–	–	½	6.00 (152.4)	3.00 (76.2)	2.81 (71.4)	0.28 (7.1)	1.25 (31.8)	0.50 (12.7)	1.75 (44.5)	99	Pink
54880BEBS	700	–	535	500	500	500	500	–	½	6.20 (157.5)	3.00 (76.2)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.63 (16.0)	1.75 (44.5)	106	Black
58884BEBS	–	–	646	–	–	–	–	–	½	6.16 (156.4)	3.00 (76.2)	1.94 (49.3)	0.27 (6.9)	1.33 (33.8)	0.50 (12.7)	1.75 (44.5)	106	
58826BEBS	900	–	777	–	–	750	–	–	⅜	6.49 (164.8)	2.80 (71.1)	2.27 (57.7)	0.30 (7.6)	1.50 (38.1)	0.63 (16.0)	1.00 (25.4)	115	Yellow

Diagrams



[¥] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements.
* Stranding will differ per class.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

Compression connectors for copper conductors

Material – High-conductivity wrought copper
Finish – Electro tin plated

Two-barrel lugs – Certified to 600 V and recommended up to 35 kV[¥]

Cat. no.	Wire size (AWG or kcmil) Code cable	Flex	Hole size (in.)	Fig. no.	Dimensions in. (mm) A	W	T	Die code	Colour code
256-30695-828	#6	61/24	¼	1	2.94 (74.7)	0.44 (11.2)	0.06 (1.5)	24	Blue
256-30695-1227	#6	61/24	¼	2	3.38 (85.9)	0.44 (11.2)	0.06 (1.5)	24	

Diagrams

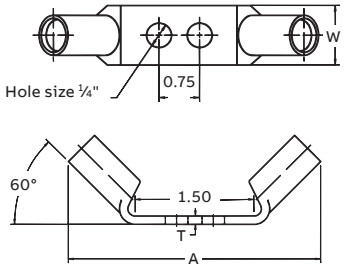
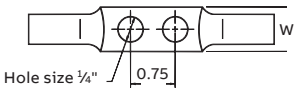


Figure 1



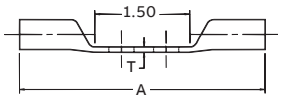


Figure 2

[¥] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

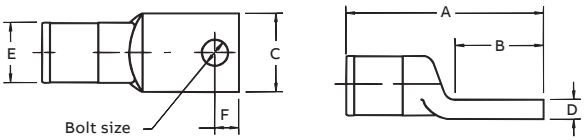
Compression connectors for copper conductors

Material – High-conductivity wrought copper
Finish – Electro tin plated

Cast copper one-hole lugs heavy-duty — certified to 600 V and recommended up to 35 kV[¥]

Cat. no.	Code cable size (AWG or kcmil)	Dimensions in. (mm) A	B	C	D	F	Bolt size (in.)	Die code
53104	8	1.43 (36.3)	0.75 (19.1)	0.50 (12.7)	0.12 (3.0)	0.28 (7.1)	#10	29
53105	6	1.43 (36.3)	0.75 (19.1)	0.50 (12.7)	0.12 (3.0)	0.28 (7.1)	¼	29
53106	4	1.43 (36.3)	0.75 (19.1)	0.50 (12.7)	0.12 (3.0)	0.28 (7.1)	¼	29
53107	2	2.00 (50.8)	1.00 (25.4)	0.75 (19.1)	0.25 (6.4)	0.43 (10.9)	¼	45
53108	1	2.00 (50.8)	1.00 (25.4)	0.75 (19.1)	0.25 (6.4)	0.43 (10.9)	¼	45
53109	1/0	2.00 (50.8)	1.00 (25.4)	0.75 (19.1)	0.25 (6.4)	0.43 (10.9)	⅜	45
53161*	325/24	2.18 (55.4)	0.75 (19.1)	0.81 (20.6)	0.21 (5.3)	0.43 (10.9)	⅜	54
53110	2/0	2.63 (66.8)	1.25 (31.8)	1.00 (25.4)	0.28 (7.1)	0.53 (13.5)	⅜	66
53111	3/0	2.63 (66.8)	1.25 (31.8)	1.00 (25.4)	0.28 (7.1)	0.53 (13.5)	⅜	66
53112	4/0	2.63 (66.8)	1.25 (31.8)	1.00 (25.4)	0.28 (7.1)	0.53 (13.5)	⅜	66
53165*	650/24	3.06 (91.4)	1.38 (35.1)	1.18 (30.0)	0.31 (7.9)	0.75 (19.1)	½	76
53113	250 kcmil	3.06 (91.4)	1.50 (38.1)	1.18 (30.0)	0.31 (7.9)	0.75 (19.1)	½	76
53114	300 kcmil	3.06 (91.4)	1.50 (38.1)	1.18 (30.0)	0.31 (7.9)	0.75 (19.1)	½	76
53115	350 kcmil	3.81 (96.8)	2.00 (50.8)	1.38 (35.1)	0.38 (9.7)	0.81 (20.6)	½	99
53116	400 kcmil	3.81 (96.8)	2.00 (50.8)	1.38 (35.1)	0.38 (9.7)	0.81 (20.6)	½	99
53118	500 kcmil	3.81 (96.8)	2.00 (50.8)	1.38 (35.1)	0.38 (9.7)	0.81 (20.6)	½	99
53168*	1,100/24	3.81 (96.8)	1.63 (41.4)	1.63 (41.4)	0.40 (10.2)	0.88 (22.4)	½	107
53169*	1,325/24	3.81 (96.8)	1.63 (41.4)	1.63 (41.4)	0.40 (10.2)	0.88 (22.4)	½	107
53123	750 kcmil	4.18 (106.2)	2.12 (53.8)	1.63 (41.4)	0.43 (10.9)	1.00 (25.4)	½	112
53173*	2,750/24	5.06 (142.2)	1.88 (47.8)	2.12 (53.8)	0.56 (14.2)	1.18 (30.0)	½	150

Diagrams



[¥] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements.
* Not UL Listed and CSA non applicable.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

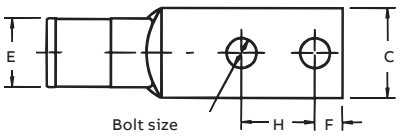
Compression connectors for copper conductors

Material – High-conductivity wrought copper
Finish – Electro tin plated

Cast copper two-hole lugs for code copper cable – Certified to 600 V and recommended up to 35 kV[¥]

Cat. no.	Code cable size (AWG or kcmil)	Bolt size (in.)	Dimensions in. (mm) A	B	C	D	E	F	H	Die code	No. of crimps 12 ton	15 ton	40 ton
256-30695-1055	#14–10	¼	2.00 (50.8)	1.31 (33.3)	0.50 (12.7)	0.12 (3.0)	0.38 (9.7)	0.25 (6.4)	0.63–0.75 (16.0–19.1)	29	1	1	1
53204	#8	¼	2.00 (50.8)	1.31 (33.3)	0.50 (12.7)	0.09 (2.3)	0.38 (9.7)	0.25 (6.4)	0.63 (16.0)	29	1	1	1
53205	#8	¼	2.00 (50.8)	1.31 (33.3)	0.50 (12.7)	0.12 (3.0)	0.38 (9.7)	0.25 (6.4)	0.63 (16.0)	29	1	1	1
53206	#4	¼	2.00 (50.8)	1.31 (33.3)	0.50 (12.7)	0.12 (3.0)	0.38 (9.7)	0.25 (6.4)	0.63 (16.0)	29	1	1	1
53207	#2	¼	3.00 (76.2)	2.00 (50.8)	0.75 (19.1)	0.12 (3.0)	0.59 (15.0)	0.50 (12.7)	0.75 (19.1)	45	1	1	1
53208	#1	¼	3.00 (76.2)	2.00 (50.8)	0.75 (19.1)	0.25 (6.4)	0.59 (15.0)	0.50 (12.7)	1.00 (25.4)	45	1	1	1
53209	1/0	⅜	3.00 (76.2)	2.00 (50.8)	0.75 (19.1)	0.25 (6.4)	0.59 (15.0)	0.50 (12.7)	1.00 (25.4)	45	1	1	1
53210	2/0	⅜	4.31 (109.5)	3.00 (76.2)	0.75 (19.1)	0.18 (4.6)	0.84 (21.3)	0.63 (16.0)	1.75 (44.5)	66	1	1	1
53211	3/0	½	4.31 (109.5)	3.00 (76.2)	1.00 (25.4)	0.28 (7.1)	0.84 (21.3)	0.63 (16.0)	1.75 (44.5)	66	1	1	1
53212	4/0	½	4.31 (109.5)	3.00 (76.2)	1.00 (25.4)	0.28 (7.1)	0.84 (21.3)	0.63 (16.0)	1.75 (44.5)	66	1	1	1
53213	250	½	4.56 (115.8)	3.00 (76.2)	1.18 (30.0)	0.18 (4.6)	0.93 (23.6)	0.63 (16.0)	1.75 (44.5)	76	1	1	1
53214	300	½	4.56 (115.8)	3.00 (76.2)	1.18 (30.0)	0.31 (7.9)	0.93 (23.6)	0.63 (16.0)	1.75 (44.5)	76	1	1	1
53215	350	½	5.31 (134.9)	3.50 (88.9)	1.38 (35.1)	0.25 (6.4)	1.21 (30.7)	0.63 (16.0)	1.75 (44.5)	99	2	1	1
53216	400	½	5.31 (134.9)	3.50 (88.9)	1.38 (35.1)	0.38 (9.7)	1.21 (30.7)	0.63 (16.0)	1.75 (44.5)	99	2	1	1
53218	500	½	5.31 (134.9)	3.50 (88.9)	1.38 (35.1)	0.38 (9.7)	1.21 (30.7)	0.63 (16.0)	1.75 (44.5)	99	2	1	1
53220M	600	½	5.31 (134.9)	3.50 (88.9)	1.63 (41.4)	0.53 (13.5)	1.35 (34.3)	0.63 (16.0)	1.75 (44.5)	112	2	1	1
53222M	700	½	5.31 (134.9)	3.50 (88.9)	1.63 (41.4)	0.03 (0.8) ±	1.35 (34.3)	0.63 (16.0)	1.75 (44.5)	112	2	1	1
53223M	750	½	5.31 (134.9)	3.50 (88.9)	1.63 (41.4)	0.03 (0.8) ±	1.35 (34.3)	0.63 (16.0)	1.75 (44.5)	112	2	1	1
53269•	1,325/24	½	5.50 (139.7)	3.50 (88.9)	1.63 (41.4)	0.40 (10.2)	1.35 (34.3)	0.63 (16.0)	1.75 (44.5)	107	2	1	1
53224	800	½	6.00 (152.4)	3.50 (88.9)	1.88 (47.8)	0.31 (7.9)	1.56 (39.6)	0.63 (16.0)	1.75 (44.5)	130	–	1	1
53226	900	½	6.00 (152.4)	3.50 (88.9)	1.88 (47.8)	0.46 (11.7)	1.56 (39.6)	0.63 (16.0)	1.75 (44.5)	130	–	1	1
53228	1000	½	6.00 (152.4)	3.50 (88.9)	1.88 (47.8)	0.46 (11.7)	1.56 (39.6)	0.63 (16.0)	1.75 (44.5)	130	–	1	1
53273•	1,100 2,750/24	½	6.19 (157.2)	3.50 (88.9)	2.12 (53.8)	0.56 (14.2)	1.90 (28.3)	0.63 (16.0)	1.75 (44.5)	150 or 150H	–	–	–
53233	1,500	½	6.25 (158.8)	3.50 (88.9)	2.25 (57.2)	0.50 (12.7)	1.90 (28.3)	0.63 (16.0)	1.75 (44.5)	150	–	1	1
53233L	1,500	½	7.31 (185.7)	3.12 (79.2)	2.00 (50.8)	0.50 (12.7)	1.88 (47.8)	0.63 (16.0)	1.75 (44.5)	150	–	1	–
53432L•*	1,500	½	7.31 (185.7)	3.12 (79.2)	3.00 (76.2)	0.50 (12.7)	1.88 (47.8)	0.63 (16.0)	1.75 (44.5)	150	–	1	–
251-30485-1275	1,250	9/16	6.19 (157.2)	3.50 (88.9)	2.12 (53.8)	0.56 (14.2)	1.90 (48.3)	0.63 (16.0)	1.75 (44.5)	150	–	–	–
251-30485-1211	1,750	–	6.38 (162.1)	3.12 (79.2)	3.00 (76.2)	0.50 (12.7)	2.18 (55.4)	–	–	175	–	–	2 (fig. 2)
251-30485-1212	1,750	–	6.38 (162.1)	3.12 (79.2)	2.25 (57.2)	0.50 (12.7)	2.18 (55.4)	–	–	175	–	–	2 (fig. 1)
53239	2,000 169/110	½	6.19 (157.2)	3.50 (88.9)	2.75 (69.9)	0.50 (12.7)	2.18 (55.4)	0.63 (16.0)	0.63 (16.0)	175	–	–	–
53239L	178/0.104 2,000 169/0.110	½	7.31 (185.7)	3.12 (79.2)	2.25 (57.2)	0.50 (12.7)	2.46 (62.5)	0.63 (16.0)	0.63 (16.0)	175	–	–	–
53439L•*	178/0.104 2,000	½	7.31 (185.7)	3.12 (79.2)	3.00 (76.2)	0.50 (12.7)	2.18 (55.4)	0.63 (16.0)	0.63 (16.0)	175	–	–	11421 die

Diagrams



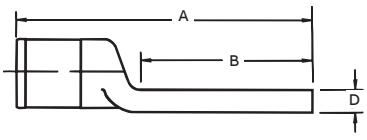


Figure 1

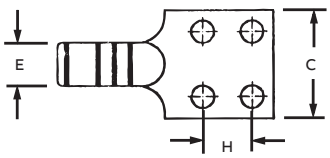


Figure 2

[¥] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements.
* Heavy-duty copper lugs for flexible strand cables 600 V not UL or CSA listed.
• CSA not applicable.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

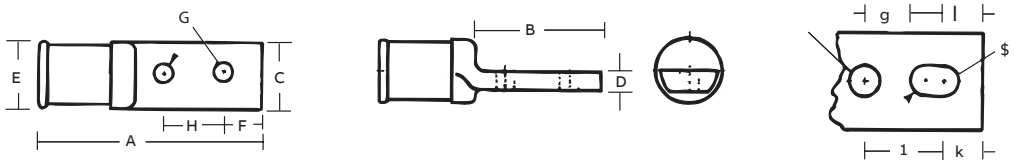
Compression connectors for copper conductors

Material – Cast copper

Color-Keyed method – Traction motor disconnect lugs for diesel-electric locomotives

		Dimensions in. (mm)					Bolt size in. (mm)			
Cat. no.	**Cable size**	**A**	**B**	**C**	**D**	**Approx. dia. E in. (mm)**	**F**	**G**	**H**	**Die code**
MD37	37/24	2.44 (62.0)	1.75 (44.5)	0.59 (15.0)	0.16 (4.1)	0.38 (9.7)	0.38 (9.7)	0.31 (7.9)	0.88 (24.4)	26
MDD61	61/24	2.44 (62.0)	1.75 (44.5)	0.59 (15.0)	0.16 (4.1)	0.38 (9.7)	0.38 (9.7)	0.31 (7.9)	0.88 (24.4)	26
MD 105	105/24	2.63 (66.8)	1.75 (44.5)	0.59 (15.0)	0.16 (4.1)	0.44 (11.2)	0.38 (9.7)	0.31 (7.9)	0.88 (24.4)	33
MD 105	91/24	2.63 (66.8)	1.75 (44.5)	0.59 (15.0)	0.16 (4.1)	0.44 (11.2)	0.38 (9.7)	0.31 (7.9)	0.88 (24.4)	33
MD 125	125/24	2.63 (66.8)	1.75 (44.5)	0.59 (15.0)	0.20 (5.2)	0.44 (11.2)	0.38 (9.7)	0.31 (7.9)	0.88 (24.4)	33
MD 150	150/24	2.06 (52.3)	1.88 (47.8)	0.59 (15.0)	0.20 (5.2)	0.63 (16.0)	0.44 (11.2)	0.31 (7.9)	0.88 (24.4)	45
MD 175	175/24	2.06 (52.3)	1.88 (47.8)	0.59 (15.0)	0.20 (5.2)	0.63 (16.0)	0.44 (11.2)	0.31 (7.9)	0.88 (24.4)	45
MD 225	225/24	3.00 (76.2)	1.88 (47.8)	0.69 (17.5)	0.20 (5.2)	0.72 (18.3)	0.44 (11.2)	0.31 (7.9)	0.88 (24.4)	60
MD 275	275/24	3.00 (76.2)	1.88 (47.8)	0.69 (17.5)	0.20 (5.2)	0.72 (18.3)	0.44 (11.2)	0.31 (7.9)	0.88 (24.4)	60
MD 325	325/24	3.00 (76.2)	1.88 (47.8)	0.69 (17.5)	0.20 (5.2)	0.72 (18.3)	0.44 (11.2)	0.31 (7.9)	0.88 (24.4)	60
MD 375	375/24	3.13 (79.5)	2.00 (50.8)	0.78 (19.8)	0.20 (5.2)	0.72 (18.3)	0.44 (11.2)	0.31 (7.9)	0.88 (24.4)	60
MD 450	450/24	3.13 (79.5)	2.00 (50.8)	0.78 (19.8)	0.20 (5.2)	0.72 (18.3)	0.44 (11.2)	0.31 (7.9)	0.88 (24.4)	60
MD 550	550/24	3.19 (81.0)	1.88 (47.8)	0.94 (23.9)	0.20 (5.2)	1.00 (25.4)	0.44 (11.2)	0.31 (7.9)	0.88 (24.4)	76
MD 650	650/24	3.19 (81.0)	1.88 (47.8)	0.94 (23.9)	0.20 (5.2)	1.00 (25.4)	0.44 (11.2)	0.31 (7.9)	0.88 (24.4)	76
MD 775	775/24	3.19 (81.0)	1.88 (47.8)	0.94 (23.9)	0.38 (9.5)	1.00 (25.4)	0.44 (11.2)	0.31 (7.9)	0.88 (24.4)	76
MD 925	925/24	3.75 (95.3)	2.06 (52.3)	1.13 (28.7)	0.38 (9.5)	1.16 (29.5)	0.44 (11.2)	0.38 (9.7)	1.00 (25.4)	87
MD 1100	1,100/24	3.75 (95.3)	2.06 (52.3)	1.34 (34.0)	0.38 (9.5)	1.38 (35.1)	0.44 (11.2)	0.38 (9.7)	1.00 (25.4)	107
MD 1325	1,325/24	3.78 (96.0)	2.09 (53.3)	1.16 (29.5)	0.38 (9.5)	1.75 (44.5)	0.44 (11.2)	0.38 (9.7)	1.00 (25.4)	107
MD 1600	1,600/24	3.75 (95.3)	2.06 (52.3)	1.34 (34.0)	0.38 (9.5)	1.38 (35.1)	0.44 (11.2)	0.38 (9.7)	1.00 (25.4)	107
MD 1925*	1,925/24	4.06 (103.1)	2.09 (53.3)	1.34 (34.0)	0.38 (9.5)	1.50 (38.1)	0.44 (11.2)	0.38 (9.7)	1.00 (25.4)	115
MD 2300	2,300/24	4.38 (111.3)	2.13 (54.1)	1.59 (40.4)	0.38 (9.5)	1.66 (42.2)	0.44 (11.2)	0.38 (9.7)	1.00 (25.4)	130

Diagrams



Note: some parts may not be current on the system. Consult your regional sales office for informations.
Tooling: all hydraulic tools 12 tons and up.
For use in mechanically splicing traction motor wires. MES Flex (B) and DLU.
* Supplied with elongated bolt hole.

Compression connectors for copper conductors

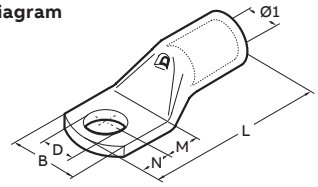
One-hole metric lugs
Color-Keyed metric lugs are manufactured from electrolytic copper tube. The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength, resisting vibration and pullout. Color-Keyed metric lugs are annealed to guarantee optimum ductility, which is a necessity for compression connectors having to withstand severe deformation arising when compressed or bending of the tongue that may happen during installation. Connectors have to perform adequately with vibration loads, and annealing is necessary to avoid material failure between the barrel and the tongue.

The presence of an inspection hole facilitates full insertion of the conductor, and the barrel length is designed to allow easy and accurate positioning of the dies during the crimping operation.
Lugs are electrolytically tin-plated to eliminate oxidation of the copper material. Color-Keyed metric lugs complement our connector family and meet a growing need for customer's connector requirements. Details of the appropriate crimping tools and dies are included. Our ABB sales representative group is always available to provide any technical advice required. Please contact them if sizes are needed additional to those shown in this catalogue.

One-hole metric lugs

	Cond. size mm²			Dimensions (mm)									
Cat. no.	Low stranded	Flexible	Stud (mm)	Ø1	B	M	N	L	D	Std. pkg.	6-tons TBM62PCR-LI (crimps)	14-tons TBM14CR-LI (crimps)	26-tons TBM26MCC (crimps)
MCC6M4*	–	4 ÷ 6	4	3.6	8.0	5.0	4.0	21.5	4.3	100	MCD6-6 (1)	–	–
MCC6M5*	–	4 ÷ 6	5	3.6	9.0	6.5	6.0	25.0	5.3	100	MCD6-6 (1)	–	–
MCC6M6*	–	4 ÷ 6	6	3.6	11.0	7.0	6.0	25.5	6.4	100	MCD6-6 (1)	–	–
MCC10M4	–	10	4	4.6	10.0	5.0	4.0	22.5	4.3	100	MCD10-6 (1)	MCD10-14 (1)	–
MCC10M5	–	10	5	4.6	10.0	6.5	6.0	26.0	5.3	100	MCD10-6 (1)	MCD10-14 (1)	–
MCC10M6	–	10	6	4.6	11.0	7.0	6.0	26.5	6.4	100	MCD10-6 (1)	MCD10-14 (1)	–
MCC10M8	–	10	8	4.6	15.0	9.0	8.0	30.5	8.4	100	MCD10-6 (1)	MCD10-14 (1)	–
MCC10M10	–	10	10	4.6	18.0	11.0	10.0	34.5	10.5	100	MCD10-6 (1)	MCD10-14 (1)	–
MCC16M4	–	16	4	5.8	11.5	5.0	4.0	25.5	4.3	100	MCD16-6 (1)	MCD16-14 (1)	–
MCC16M5	–	16	5	5.8	11.5	6.5	6.0	29.0	5.3	100	MCD16-6 (1)	MCD16-14 (1)	–
MCC16M6	–	16	6	5.8	11.5	7.0	6.0	29.5	6.4	100	MCD16-6 (1)	MCD16-14 (1)	–
MCC16M8	–	16	8	5.8	15.0	9.0	8.0	33.5	8.4	100	MCD16-6 (1)	MCD16-14 (1)	–
MCC16M10	–	16	10	5.8	18.0	11.0	10.0	37.5	10.5	100	MCD16-6 (1)	MCD16-14 (1)	–
MCC25M5	–	25	5	7.0	14.0	6.5	6.0	31.5	5.3	100	MCD25-6 (1)	MCD25-14 (1)	–
MCC25M6	–	25	6	7.0	14.0	7.0	6.0	32.0	6.4	100	MCD25-6 (1)	MCD25-14 (1)	–
MCC25M10	–	25	10	7.0	18.0	11.0	10.0	40.0	10.5	100	MCD25-6 (1)	MCD25-14 (1)	–
MCC35M5	35	25, 35	5	8.9	17.0	6.5	6.0	34.0	5.3	100	MCD35-6 (1)	MCD35-14 (1)	–
MCC35M6	35	25, 35	6	8.9	17.0	7.0	6.0	34.5	6.4	100	MCD35-6 (1)	MCD35-14 (1)	–
MCC35M8	35	25, 35	8	8.9	17.0	9.0	8.0	38.5	8.4	100	MCD35-6 (1)	MCD35-14 (1)	–
MCC35M10	35	25, 35	10	8.9	19.0	11.0	10.0	42.5	10.5	100	MCD35-6 (1)	MCD35-14 (1)	–
MCC35M12	35	25, 35	12	8.9	21.0	14.0	12.0	47.5	13.2	100	MCD35-6 (1)	MCD35-14 (1)	–
MCC50M8	50	35, 50	8	10.0	19.0	19.0	8.0	42.5	8.4	50	MCD50-6 (1)	MCD50-14 (1)	–
MCC50M10	50	35, 50	10	10.0	20.0	11.0	10.0	46.5	10.5	50	MCD50-6 (1)	MCD50-14 (1)	–
MCC50M12	50	35, 50	12	10.0	21.0	14.0	12.0	51.5	13.2	50	MCD50-6 (1)	MCD50-14 (1)	–

Diagram



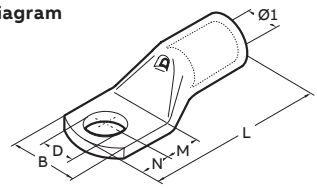
* UL not applicable.

Compression connectors for copper conductors

One-hole metric lugs (continued)

Cat. no.	Cond. size mm² Low stranded	Cond. size mm² Flexible	Stud (mm)	Dimensions (mm) Ø1	B	M	N	L	D	Std. pkg.	6-tons TBM62PCR-LI (crimps)	14-tons TBM14CR-LI (crimps)	26-tons TBM26MCC (crimps)
MCC70M6	70	50, 70	6	11.3	21.0	8.0	7.0	44.0	6.4	50	MCD70-6 (1)	MCD70-14 (1)	–
MCC70M8	70	50, 70	8	11.3	21.0	9.0	8.0	46.0	8.4	50	MCD70-6 (1)	MCD70-14 (1)	–
MCC70M10	70	50, 70	10	11.3	21.0	11.0	10.0	50.0	10.5	50	MCD70-6 (1)	MCD70-14 (1)	–
MCC70M12	70	50, 70	12	11.3	22.0	14.0	12.0	55.0	13.2	50	MCD70-6 (1)	MCD70-14 (1)	–
MCC70M16	70	50, 70	16	11.3	26.0	18.0	16.0	63.0	17.0	50	MCD70-6 (1)	MCD70-14 (1)	–
MCC95M8	95	70, 95	8	13.5	25.0	9.0	8.0	52.5	8.4	50	MCD95-6 (1)	MCD95-14 (1)	–
MCC95M10	95	70, 95	10	13.5	25.0	11.0	10.0	56.5	10.5	50	MCD95-6 (1)	MCD95-14 (1)	–
MCC95M12	95	70, 95	12	13.5	25.0	14.0	12.0	61.5	13.2	50	MCD95-6 (1)	MCD95-14 (1)	–
MCC120M6*	120	95, 120	8	–	–	–	–	–	6.4	25	MCD120-6 (1)	MCD120-14 (1)	–
MCC120M8	120	95, 120	8	15.2	28.5	9.0	8.0	54.0	8.4	25	MCD120-6 (1)	MCD120-14 (1)	–
MCC120M10	120	95, 120	10	15.2	28.5	11.0	10.0	58.0	10.5	25	MCD120-6 (1)	MCD120-14 (1)	–
MCC120M12	120	95, 120	12	15.2	28.5	14.0	12.0	63.0	13.2	25	MCD120-6 (1)	MCD120-14 (1)	–
MCC120M16	120	95, 120	16	15.2	28.5	18.0	16.0	71.0	17.0	25	MCD120-6 (1)	MCD120-14 (1)	–
MCC150M10	150	120, 150	10	15.2	28.5	18.0	16.0	71.0	17.0	25	MCD150-6 (3)	MCD150-14 (1)	–
MCC150M12	150	120, 150	12	16.7	31.5	16.0	14.0	75.0	13.2	25	MCD150-6 (3)	MCD150-14 (1)	–
MCC150M16	150	120, 150	16	16.7	31.5	19.0	17.0	81.0	17.0	25	MCD150-6 (3)	MCD150-14 (1)	–
MCC185M10	185	150, 185	10	19.2	35.5	13.0	11.0	76.0	10.5	25	MCD185-6 (3)	MCD185-14 (1)	–
MCC185M12	185	150, 185	12	19.2	35.5	16.0	14.0	82.0	13.2	25	MCD185-6 (3)	MCD185-14 (1)	–
MCC185M16	185	150, 185	16	19.2	35.5	19.0	17.0	88.0	17.0	15	MCD185-6 (3)	MCD185-14 (1)	–
MCC240M10	240	185, 240	10	21.1	39.0	13.0	11.0	82.0	10.5	15	MCD240-6 (3)	MCD240-14 (2)	–
MCC240M12	240	185, 240	12	21.1	39.0	16.0	14.0	88.0	13.2	15	MCD240-6 (3)	MCD240-14 (2)	–
MCC240M16	240	185, 240	16	21.1	39.0	19.0	17.0	94.0	17.0	15	MCD240-6 (3)	MCD240-14 (2)	–
MCC300M10	300	240	10	23.7	44.0	13.0	11.0	96.0	10.5	10	–	MCD300-14 (3)	–
MCC300M12	300	240	12	23.7	44.0	16.0	14.0	99.0	13.2	10	–	MCD300-14 (3)	–
MCC300M16	300	240	16	23.7	44.0	19.0	19.0	10.0	17.0	10	–	MCD300-14 (3)	–
MCC400M10*	400	300	10	27.0	51.0	22.0	19.0	113.0	13.2	5	–	MCD400-14 (3)	MCD400-26 (2)
MCC400M12	400	300	12	27.0	51.0	22.0	19.0	113.0	13.2	5	–	MCD400-14 (3)	MCD400-26 (2)
MCC400M16	400	300	16	27.0	51.0	22.0	19.0	113.0	17.0	5	–	MCD400-14 (3)	MCD400-26 (2)
MCC500M10*	500	400	10	–	–	–	–	–	13.2	5	–	–	MCD500-26 (2)
MCC500M12*	500	400	12	–	–	–	–	–	17.0	5	–	–	MCD500-26 (2)
MCC500M16	500	400	16	30.3	56.5	22.0	19.0	117.0	17.0	5	–	–	MCD500-26 (2)
MCC630M16	630	500	16	33.4	61.6	22.0	19.0	128.0	17.0	6	–	–	MCD630-26 (2)
MCC630M20	630	500	20	33.4	61.6	24.0	23.0	134.0	21.0	6	–	–	MCD630-26 (2)
MCC800M16	800	630	16	38.0	72.0	24.0	19.0	141.0	17.0	3	–	–	–
MCC800M20	800	630	20	38.0	72.0	24.0	23.0	145.0	21.0	3	–	–	–
MCC1000M16	1,000	800	16	44.0	80.0	24.0	19.0	158.0	17.0	2	–	–	–
MCC1000M20	1,000	800	20	44.0	80.0	24.0	23.0	162.0	21.0	2	–	–	–

Diagram



* UL not applicable.

Compression connectors for copper conductors

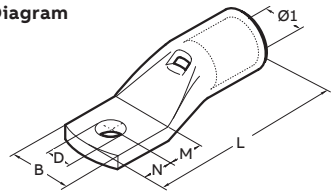
Narrow-tongue metric lugs
Color-Keyed narrow-tongue metric lugs feature a contained tongue width.
Our lugs have been specifically developed for applications with low voltage circuit breakers with reduced space requirements. The tongue width allows a quicker and easier installation.
Color-Keyed narrow-tongue metric lugs are manufactured from electrolytic copper tube.

The specific design of the barrel and dimensions create the best combination of mechanical strength and electrical conductivity.
Color-Keyed narrow-tongue metric lugs are annealed to guarantee optimum ductility and are electrolytically tin-plated to avoid oxidation.
The barrel is provided with an internal chamfer for easy insertion of the conductor.
The length allows easy positioning of the dies for proper crimping.

Narrow-tongue metric lugs

Cat. no.	Cond. size flexible (mm²)	Stud (mm)	Dimensions (mm) Ø1	B	M	N	L	D	Std. pkg.	6-tons TBM62PCR-LI (crimps)	14-tons TBM14CR-LI (crimps)
MCCNT10M5	10	5	4.6	9.0	6.5	6.0	26.0	5.3	100	MCD10-6 (1)	MCD10-14 (1)
MCCNT16M5	16	5	5.8	9.0	6.5	6.0	29.0	5.3	100	MCD16-6 (1)	MCD16-14 (1)
MCCNT25M5	25	5	7.0	9.0	6.5	6.0	31.5	5.3	100	MCD25-6 (1)	MCD25-14 (1)
MCCNT35M6	35	6	8.9	11.5	8.0	7.0	36.5	6.4	100	MCD35-6 (2)	MCD35-14 (1)
MCCNT50M6	50	6	10.0	11.5	8.0	7.0	40.5	6.4	50	MCD50-6 (1)	MCD50-14 (1)
MCCNT70M6	70	6	11.3	11.5	8.0	7.0	44.0	6.4	50	MCD70-6 (2)	MCD70-14 (1)
MCCNT95M8	95	8	13.5	15.5	9.0	8.0	52.5	8.0	25	MCD95-6 (1)	MCD95-14 (1)
MCCNT120M8	120	8	15.2	19.0	14.0	9.0	60.0	8.4	25	MCD120-6 (2)	MCD120-14 (1)
MCCNT120M10	120	10	15.2	19.0	14.0	9.0	60.0	10.5	25	MCD120-6 (2)	MCD120-14 (1)
MCCNT150M8	150	8	16.7	19.0	18.0	9.0	70.0	8.4	25	MCD150-6 (3)	MCD150-14 (1)
MCCNT150M10	150	10	16.7	19.0	18.0	9.0	70.0	10.5	25	MCD150-6 (3)	MCD150-14 (1)
MCCNT185M10	185	10	19.2	24.5	18.0	9.0	77.0	10.5	25	MCD185-6 (3)	MCD185-14 (1)
MCCNT240M10	240	10	21.1	31.0	13.0	9.0	80.0	10.5	15	MCD240-6 (3)	MCD240-14 (1)
MCCNT240M12	240	12	21.1	31.0	16.0	12.0	86.0	13.2	15	MCD240-6 (3)	MCD240-14 (1)
MCCNT240M16	240	16	21.1	31.0	19.0	17.0	94.0	17.0	15	MCD240-6 (3)	MCD240-14 (1)
MCCNT300M12	300	12	23.7	31.0	16.0	12.0	95.0	13.2	10	–	MCD300-14 (3)

Diagram



Compression connectors for copper conductors

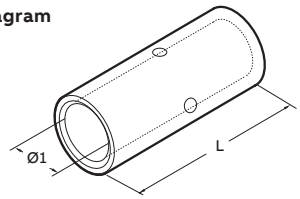
Two-way metric splice connectors
Color-Keyed metric splice connectors are designed for joining low voltage conductors.
Made of electrolytic copper tube having similar dimensions to the Color-Keyed metric lugs, these connectors are also annealed and electrolytically tin-plated.

They feature an internal chamfer at both ends. For easy insertion of the conductor, a center stop is provided to ensure correct positioning.

Two-way metric splice connectors

	Cond. size (mm²)		Dimensions (mm)					
Cat. no.	Low stranded	Flexible	Ø1	L	Std. pkg.	6-tons TBM62PCR-LI (crimps)	14-tons TBM14CR-LI (crimps)	26-tons TBM26MCC (crimps)
MCST1	0.25 ÷ 1.5	0.25 ÷ 1.5	1.8	15	100	–	–	–
MCST2	1.5 ÷ 2.5	1.5 ÷ 2.5	2.4	15	100	–	–	–
MCST6	4 ÷ 6	4 ÷ 6	3.6	22	100	MCD6-6 (1 +1)	–	–
MCST10	10	10	4.6	25	100	MCD10-6 (1 +1)	MCD10-14 (1 +1)	–
MCST16	16	16	5.8	27	100	MCD16-6 (1 +1)	MCD16-14 (1 +1)	–
MCST25	25	25	7.0	29	100	MCD25-6 (1 +1)	MCD25-14 (1 +1)	–
MCST35	35	25 ÷ 35	8.9	332	100	MCD35-6 (1 +1)	MCD35-14 (1 +1)	–
MCST50	50	35 ÷ 50	10.0	37	50	MCD50-6 (2 +2)	MCD50-14 (1 +1)	–
MCST70	70	50 ÷ 70	11.3	39	50	MCD70-6 (2 +2)	MCD70-14 (1 +1)	–
MCST95	95	70 ÷ 95	13.5	43	25	MCD95-6 (2 +2)	MCD95-14 (1 +1)	–
MCST120	120	95 ÷ 120	15.2	47	25	MCD120-6 (2 +2)	MCD120-14 (1 +1)	–
MCST150	150	120 ÷ 150	16.7	58	25	MCD150-6 (3 +3)	MCD150-14 (1 +1)	–
MCST185	185	150 ÷ 85	19.2	64	25	MCD185-6 (3 +3)	MCD185-14 (1 +1)	–
MCST240	240	185 ÷ 240	21.1	75	15	MCD240-6 (3 +3)	MCD240-14 (2 +2)	–
MCST300	300	240	23.7	90	10	–	MCD300-14 (3 +3)	–
MCST400	400	300	27.0	94	5	–	MCD400-14 (3 +3)	MCD400-26 (2 +2)
MCST500	500	400	30.3	98	6	–	–	MCD500-26 (2 +2)
MCST630	600 ÷ 630	500	33.4	105	6	–	–	MCD630-26 (2 +2)
MCST800	800	600	38.0	112	3	–	–	–
MCST1000	1,000	800	44.0	120	3	–	–	–

Diagram



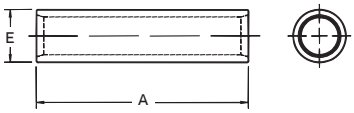
Compression connectors for copper conductors

Material – High conductivity wrought copper
Finish – Electro tin plated
Two-way connectors provide high pullout values, are easy to insulate and provide a low-resistance connection of high quality and low installed cost.

Two-way splice connectors – Standard barrel certified to 600 V and recommended up to 35 kV¥

Cat. no.	Code cable (AWG or kcmil)	Wire size Flex cable classes G, H, I, K, M*	Dimensions in. (mm) A	 E	Die set cat. no.	Colour code
54504	#8	#8 AWG, 37/24, #8 Weld	1.00 (25.4)	0.27 (6.9)	21	Red
54505	#6	#6 AWG, 61/24, #6 Weld, 133/0.014	1.00 (25.4)	0.30 (7.6)	24	Blue
54506	#4	#4 AWG, 91/24, 133/0.0177, 49/0.029	1.00 (25.4)	0.37 (9.4)	29	Grey
54507	#2	125/24, #4 Weld	1.25 (31.8)	0.41 (10.4)	33	Brown
54508	#1	#2 AWG, 150/24, 175/24, #2 Weld, 133/0.0223	1.50 (38.1)	0.47 (11.9)	37	Green
54509	1/0	225/24, #1 Weld, 133/0.0254	1.63 (41.4)	0.52 (13.2)	42	Pink
54510	2/0	1/0 AWG, 275/24, 1/0 Weld, 427/0.0155, 133/0.0282	1.75 (44.5)	0.57 (14.5)	45	Black
54511	3/0	2/0 AWG, 325/24, 2/0 Weld, 133/0.0316, 259/0.0227, 427/0.0177	1.75 (44.5)	0.63 (16.0)	50	Orange
53962	–	375/24, 179 kcmil, 133/0.0355, 259/0.0255, 427/0.0199	1.81 (46.0)	0.70 (17.8)	50	
54512	4/0	3/0 AWG, 450/24, 3/0 Weld, 703/0.0154	1.88 (47.8)	0.70 (17.8)	54	Purple
54513	250	4/0 AWG, 550/24, 4/0 Weld, 133/0.0399, 259/0.0286, 637/0.0183	2.25 (57.2)	0.77 (19.6)	62	Yellow
53964	–	4/0 AWG, 550/24, 4/0 Weld, 133/0.0399, 259/0.0286, 637/0.0183	2.13 (54.1)	0.79 (20.1)	62	
54514	300	–	2.13 (54.1)	0.83 (21.1)	66	White
54515	350	–	2.25 (57.2)	0.90 (22.9)	71	Red
54516	400	–	2.75 (69.9)	0.93 (23.6)	76	Blue
53968	–	300 kcmil, 775/24 (313 kcmil)	3.00 (76.2)	1.13 (28.7)	87	Brown
54518	500	–	2.75 (69.9)	1.11 (28.2)	87	
54520	600	–	3.00 (76.2)	1.18 (30.0)	94	Green
54522-TB	700	–	3.25 (82.6)	1.23 (31.2)	99	Pink
53969	–	1325/24 = 500/535 kcmil, 427/0.0342	3.00 (76.2)	1.24 (31.5)	99	
54523-TB	750	–	3.00 (76.2)	1.30 (33.0)	106	Black
54528	1,000		3.63 (92.2)	1.50 (38.1)	125	–
54530	1,250		4.13 (104.9)	1.67 42.4)	140	

Diagram



¥ For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements.
*Consult your regional sales office for complete list of flex cable class sizes M.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

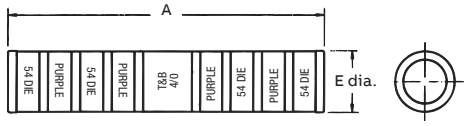
Compression connectors for copper conductors

Material – High conductivity wrought copper
Finish – Electro tin plated

Two-way splice connectors – Long barrel certified to 600 V and recommended up to 35 kV¥

Cat. no.	Code cable (AWG or kcmil)	Wire size Flex cable classes G, H, I, K, M	Dimensions in. (mm) A	 E	Die code	Colour code
54804	#8	#8, 37/24 = 14.9 kcmil	1.75 (44.5)	0.27 (6.9)	21	Red
54805	#6	#6, 61/24 = 24.6 kcmil	1.75 (44.5)	0.31 (7.9)	24	Blue
54806	#4	#4, 91/24 = 36.7 kcmil	1.75 (44.5)	0.39 (9.9)	29	Grey
54807	#2	125/24 = 50.4 kcmil	1.88 (47.8)	0.43 (11.0)	33	Brown
54808	#1	#2, 150/24 = 60.5 kcmil, 175/24 = 70.6 kcmil	2.00 (50.8)	0.49 (12.4)	37	Green
54809	1/0	225/24 = 90.8 kcmil	2.00 (50.8)	0.54 (13.7)	42	Pink
54810	2/0	1/0, 275/24 = 111 kcmil	2.13 (54.1)	0.59 (15.0)	45	Black
54811	3/0	2/0, 325/24 = 131 kcmil	2.25 (57.2)	0.65 (16.5)	50	Orange
54812	4/0	450/24 = 182 kcmil	2.75 (69.9)	0.72 (18.3)	54	Purple
54813	250	4/0, 550/24 = 222 kcmil	3.38 (85.9)	0.79 (20.1)	62	Yellow
54814	300	250, 650/24 = 262 kcmil	3.50 (88.9)	0.87 (22.1)	66	White
54815	350	–	3.75 (95.3)	0.95 (24.1)	71	Red
54816	400	775/24 = 313 kcmil	3.75 (95.3)	0.98 (24.9)	76	Blue
54818	500	350, 925/24 = 373 kcmil	4.75 (120.6)	1.11 (28.2)	87	Brown
54820	600	1,100/24 = 444 kcmil	4.25 (108.0)	1.21 (30.7)	94	Green
54823	750	500, 1,325/24 = 535 kcmil	4.75 (120.6)	1.34 (34.0)	106	Black
58524	750	1,600/24 = 646 kcmil	5.00 (127.0)	1.39 (35.3)	106	
58526*	900	750, 1,925/24 = 777 kcmil	5.50 (139.7)	1.51 (38.4)	115	Yellow
54828	1,000	–	5.63 (143.0)	1.56 (39.6)	125	–
54833	1,500	–	5.63 (143.0)	1.56 (39.6)	125	
54839	2,000	–	7.06 (179.3)	2.13 (54.1)	–	

Diagram



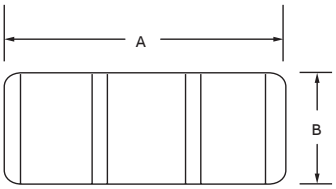
¥ For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.
CSA approved standard cable only.

Compression connectors for copper conductors

Copper two-way splice – Certified to 600 V and recommended up to 15 kV

Cat. no.	Cable size (AWG or kcmil)**	Dimensions in. (mm) A	Dimensions in. (mm) B	Installing tools 14 and 15-tons* Die set Cat. no.	Strip length (in.)	Colour code
54006-TB	#4	2.00 (50.8)	0.37 (9.4)	15CA29R	1½	Grey
54007-TB	#2	2.13 (54.1)	0.41 (10.4)	15CA33R	1⅝	Brown
54008-TB	#1	2.25 (57.2)	0.47 (11.9)	15CA37R	1⅝	Green
54009-TB	1/0	2.38 (60.5)	0.52 (13.2)	15CA42R	1¾	Pink
54010	2/0	2.38 (60.5)	0.57 (14.5)	15CA45R	1¾	Black
54011	3/0	2.63 (66.8)	0.63 (16.0)	15CA49R	1 13/16	Orange
54012-TB	4/0	2.69 (68.3)	0.69 (17.5)	15CA54R	1 13/16	Purple
54013	250	3.19 (81.0)	0.74 (18.8)	15CA60R	2⅛	Ruby
54015	350	4.13 (104.9)	0.89 (22.6)	15CA71R	2⅝	Red
54018	500	4.13 (104.9)	1.06 (40.6)	15CA87R	2⅝	Brown
54023	750	4.75 (120.7)	1.30 (33.0)	15CA106R	2⅞	Black

Diagram



*Cat. no. 15505-TB die adaptor required for TBM15I.
** Cable size: Concentric and compact strandings.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

Material – Cast copper
Finish – Electro tin plated

Cast–copper two-way splice connectors – heavy-duty certified to 600 V and recommended up to 35 kV¥

Cat. no.	Cable size (AWG or kcmil)	Die code
53504	#8	29
53505	#6	29
53506	#4	29
53507	#2	45
53508	#1	45
53509	1/0	45
53510	2/0	66
53511	3/0	66
53512	4/0	66
53513	250	76
53515	350	99
53518	500	99
53523	750	112

¥ For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements.
Use hydraulic tools with hex dies 13642M, 13400 and 21940.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

Compression connectors for copper conductors

Constant O.D. enables faster, easier installation than contoured design

Cast-copper reducing splices

ABB takes the splicing of different-sized conductors to a new level of economy and efficiency with Color-Keyed cast-copper reducing splices. In addition to a lower cost, the key benefit to these splices is in their constant outer diameter. Unlike screw-machined, externally contoured splices, cast-copper reducing splices require no change of tool or die between crimping each end. Just slide each wire easily into the chamfered barrel and use the same Color-Keyed tool and die to crimp both ends. The consistent O.D. also makes these splices faster and easier to insulate with clear heat-shrink wrap than a contoured splice. Sand-cast construction ensures high-tensile strength for heavy-duty applications and tin-plated copper material provides high conductivity and superior corrosion resistance.

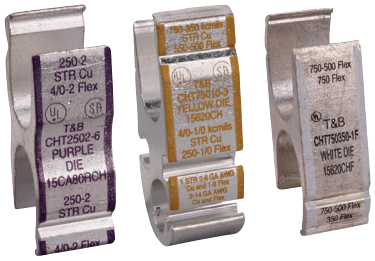
- Ideal for telecom (inside office/outside plant), commercial, industrial MRO and any other certified to 600 V and recommended up to 35 kV[¥] applications requiring splicing of different-sized conductors.
- Tin-plated, sand-cast copper construction provides superior tensile strength, high conductivity and excellent corrosion resistance.
- Easier to install and insulate than screw-machined, contour-designed reducing splices.
- Constant O.D. saves time on installation by eliminating the need for crimp-tool/die change.
- Fast and simple to insulate with clear or coloured heat-shrink wrap.
- Chamfered barrel facilitates easy wire insertion.
- Compact, low-profile design takes up minimal space in cable tray or wire run.
- Simple installation with Color-Keyed crimp tools (12, 14 and 15 ton).

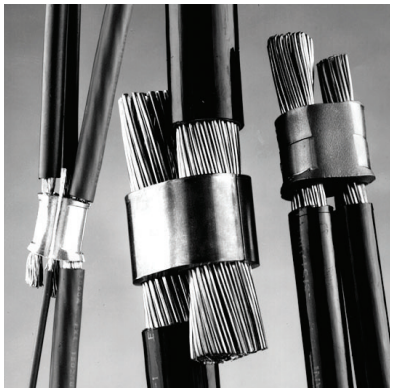
Cast-copper reducing splices

Cat. No.	Cond.1 size (AWG or kcmil)	Cond. 2 size (AWG or kcmil)	Length in. (mm)	Dia. in. (mm)	Die Code	Colour Code
251-30485-19	4/0 Str.	2 Str.	2.25 (57.2)	0.81 (20.6)	66	White
251-30485-91	500 kcmil Str.	300 kcmil Str.	3.31 (84.1)	0.81 (20.6)	99	Pink
251-30485-229	2/0 Str.	250 kcmil Str.	2.38 (60.5)	0.93 (23.6)	76	Blue
251-30485-247	2 Str.	8 Str.	0.56 (14.2)	0.59 (15.0)	45	Black
251-30485-294	4 Str.	2/0 Str.	2.25 (57.2)	0.84 (21.3)	66	White
251-30485-295	4/0 Str.	4 Str.	2.25 (57.2)	0.81 (20.6)	66	
251-30485-331	4/0 Str.	350 kcmil Str.	3.31 (84.1)	0.53 (13.5)	99	Pink
251-30485-445	4/0 Str.	2/0 Str.	2.25 (57.2)	0.81 (20.6)	66	White
251-30485-495	1/0 Str.	2 Str.	1.56 (39.6)	0.59 (15.0)	45	Black
251-30485-610	6 Str.	8 Str.	1.21 (30.7)	0.38 (9.7)	29	Grey
251-30485-611	4 Str.	8 Str.	1.21 (30.7)	0.38 (9.7)	29	
251-30485-612	4 Str.	6 Str.	1.21 (30.7)	0.38 (9.7)	29	
251-30485-613	2 Str.	6 Str.	1.56 (39.6)	0.59 (15.0)	45	Black
251-30485-640	4/0 Str.	1/0 Str.	2.25 (57.2)	0.81 (20.6)	66	White
251-30485-653	2 Str.	250 kcmil Str.	2.38 (60.5)	0.93 (23.6)	76	Blue
251-30485-739	1/0 Str.	250 kcmil Str.	2.38 (60.5)	0.93 (23.6)	76	
251-30485-882	400 kcmil Str.	350 kcmil Str.	3.31 (84.1)	0.53 (13.5)	99	Pink
251-30485-950	1/0 Str.	6 Str.	1.56 (39.6)	0.59 (15.0)	45	Black
251-30485-951	6 Str.	2/0 Str.	2.25 (57.2)	0.84 (21.3)	66	White
251-30485-1027	1/0 Str.	4 Str.	1.56 (39.6)	0.59 (15.0)	45	Black
251-30485-1029	1/0 Str.	#12 Str.	1.56 (39.6)	0.57 (14.5)	45	
251-30485-1030	10 Str.	4 Str.	1.21 (30.7)	0.38 (9.7)	29	Grey
251-30485-1031	12 Str.	4 Str.	1.21 (30.7)	0.38 (9.7)	29	
251-30485-1032	#6 Str.	#10 Str.	1.21 (30.7)	0.38 (9.7)	29	
251-30485-1033	12 Str.	6 Str.	1.21 (30.7)	0.38 (9.7)	29	
251-30485-1034	14 Str.	8 Str.	1.21 (30.7)	0.38 (9.7)	29	
251-30485-1035	1 Str.	1/0 Str.	1.56 (39.6)	0.59 (15.0)	45	Black
251-30485-1044	10 Str.	8 Str.	1.21 (30.7)	0.38 (9.7)	29	Grey
251-30485-1045	12 Str.	8 Str.	1.21 (30.7)	0.38 (9.7)	29	
251-30485-1085	10 Str.	1/0 Str.	1.56 (39.6)	0.59 (15.0)	45	Black
251-30485-1086	10 Str.	2/0 Str.	2.25 (57.2)	0.84 (21.3)	66	White
251-30485-1087	4 Str.	250 kcmil Str.	2.38 (60.5)	0.93 (23.6)	76	Blue
251-30485-1088	400 kcmil Str.	250 kcmil Str.	3.31 (84.1)	0.53 (13.5)	99	Pink
251-30485-1089	14 Str.	8 Sol.	1.21 (30.7)	0.38 (9.7)	29	Grey
251-30485-1090	12 Str.	8 Sol.	1.21 (30.7)	0.38 (9.7)	29	
251-30485-1091	10 Str.	8 Sol.	1.21 (30.7)	0.38 (9.7)	29	
251-30485-1092	12 Str.	6 Sol.	1.21 (30.7)	0.38 (9.7)	29	
251-30485-1093	8 Str.	6 Sol.	1.21 (30.7)	0.38 (9.7)	29	
251-30485-1094	4 Str.	6 Sol.	1.21 (30.7)	0.38 (9.7)	29	
251-30485-1095	2 Str.	6 Sol.	1.56 (39.6)	0.59 (15.0)	45	Black
251-30485-1096	12 Str.	4 Sol.	1.21 (30.7)	0.38 (9.7)	29	Grey
251-30485-1097	10 Str.	4 Sol.	1.21 (30.7)	0.38 (9.7)	29	
251-30485-1098	8 Str.	4 Sol.	1.21 (30.7)	0.38 (9.7)	29	
251-30485-1099	6 Str.	4 Sol.	1.21 (30.7)	0.38 (9.7)	29	
251-30485-1100	1/0 Str.	4 Sol.	1.56 (39.6)	0.59 (15.0)	45	Black
251-30485-1130	Cast Copper*	12–4 Str.	1.28 (32.5)	0.38 (9.7)	29	
251-30485-1245	1/0 Flex	#4 Flex	2.25 (57.2)	0.81 (20.6)	66	White
251-30485-1246	#4 Flex	#8 Flex	1.56 (39.6)	0.57 (14.5)	45	Black

[¥] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements.
* Cast copper – field-modifiable special.

Copper H-tap connectors for copper conductors





Material – High conductivity extruded copper
Finish – Electro tin plated

Copper H-taps – Certified to 600 V

Cat. no.	Fig. no.	Colour code	Wire size (AWG or kcmil) Main	Branch 1	Branch 2	Branch 3	Crimping information Hydraulic head	Installing die	# of crimps	Colour code	Die code	Strip length (in.)	Insulating covers
CHT750350-1F	1	**White**	(750–500) (750) Flex only	(750–500) (350) Flex only	–	–	TBM15I	15620CHF	1	**White**	F	1⅛	HTC
CHT750350-2	2	**Yellow**	750–500 (550–500)	750–500 (550–350)	–	–	TBM15I	15620CH	1	**Yellow**	Z	1⅜	HTC500
CHT75010-3	9		750–500 (550–500)	4/0–1/0 (250–1/0)	1 Str. 2–6 AWG (1–8)	2–14 (2–14)	TBM15I	15620CH	1		Z	1⅛	HTC500
CHT50040-4	2	**Brown**	500–250 (350–4/0)	500–4/0 (350–4/0)	–	–	TBM15I	15612CH	2	**Brown**	N	1⅛	HTC500
CHT50010-5	3		500–250 (350–4/0)	250–1/0 (4/0–1/0)	1 Str. 2–6 AWG (1–8)	8–14 (8–14)	TBM15I	15612CH	2		N	1⅛	HTC500
CHT2502-6	2	**Purple**	250–2 (4/0–2)	250–2 (4/0–2)	–	–	•TBM15I TBM14M	15CA80RCH	1	**Purple**	80R	13⁄16	HTC40
CHT25014-7	4		250–2 (4/0–2)	2–6 Str./Sol. (2–8)	8–14 (8–14)	–	•TBM15I TBM14M	15CA80RCH	1		80R	1⅛	HTC40
CHT250214-8	5		250–2 (4/0–2)	8–14 (8–14)	8–14 (8–14)	–	•TBM15I TBM14M	15CA80RCH	1		80R	1⅛	HTC40
CHT214-9	6	**Brown**	2–6 Str./Sol. (2–8)	2–6 Str./Sol. (2–8)	8–14 (8–14)	8–14 (8–14)	•TBM15I TBM14M 13100A	15CA71RCH	3	**Brown**	71R	⅞	HTC40
CHT814-10	7	**Green**	8–14 (8–14)	8–14 (8–14)	8–14 (8–14)	8–14 (8–14)	•TBM15I TBM14M 13100A	15CA37RCH	1	**Green**	37R	½	HTC2S
CHT75040-11	8	**Yellow**	750 Str. (750–500)	350–4/0 Str. Cu. & Flex	8–14 (8–14)	8–14 (8–14)	TBM15I	15620CH	1	**Yellow**	Z	1⅛	HTC500

• Requires adaptor cat. no. 15500-TB when used with hydraulic head TBM15I.
Material: Copper per AS ™ designation B-124-55 Alloy 12.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

Copper H-tap connectors for copper conductors

Material – High conductivity extruded copper
Finish – Electro tin plated

Copper H-taps – Certified to 600 V (continued)

Cat. no.	Fig. no.	Dimensions in. (mm) H	W	L	A	D	D1	D2	D3	Strip length (in.)	Insulating covers
CHT750350-1F	1	3.46 (87.9)	1.66 (42.1)	1.10 (27.9)	1.73 (43.9)	1.23 (31.2)	–	–	–	1⅛	HTC1000
CHT750350-2	2	3.24 (82.3)	1.50 (38.1)	1.25 (31.8)	1.62 (41.1)	1.02 (30.5)	–	–	–	1⅜	HTC500
CHT75010-3	9	3.13 (79.5)	1.50 (38.1)	1.00 (25.4)	1.54 (39.1)	1.00 (25.4)	0.40 (10.2)	0.35 (8.9)	0.41 (10.4)	1⅛	HTC500
CHT75040-11	8	3.19 (81.0)	(1) 1.65 (41.9)	1.00 (25.4) (2) 1.05 (26.7)	(1) 1.61 (40.9)	(1) 1.24 (31.5) (2) 1.29 (32.8)	(2) 0.80 (20.3)	–	–	1⅛	HTC500
CHT50040-4	2	2.64 (67.1)	1.18 (30.0)	1.00 (25.4)	1.32 (33.5)	0.80 (20.3)	–	–	–	1⅛	HTC500
CHT50010-5	3	2.28 (57.9)	1.30 (33.0)	1.00 (25.4)	1.20 (30.5)	0.80 (20.3)	0.67 (17.0)	0.19 (4.8)	0.43 (10.9)	1⅛	HTC500
CHT2502-6	2	1.99 (50.9)	0.90 (22.9)	0.66 (16.8)	1.00 (25.4)	0.62 (15.7)	–	–	–	13⁄16	HTC40
CHT25014-7	4	1.63 (41.4)	0.90 (22.9)	0.90 (22.9)	0.96 (24.4)	0.52 (13.2)	0.35 (8.9)	0.19 (4.8)	–	1⅛	HTC40
CHT250214-8	5	1.63 (41.4)	0.90 (22.9)	0.90 (22.9)	0.96 (24.4)	0.62 (15.7)	0.19 (4.8)	0.19 (4.8)	–	1⅛	HTC40
CHT214-9	6	1.35 (34.3)	0.60 (15.2)	0.75 (19.1)	0.50 (12.7)	0.33 (8.4)	0.19 (4.8)	0.19 (4.8)	–	⅞	HTC40
CHT814-10	7	0.62 (15.7)	0.60 (15.2)	0.37 (9.4)	0.25 (6.4)	0.16 (4.1)	–	–	–	½	HTC2S

Diagrams

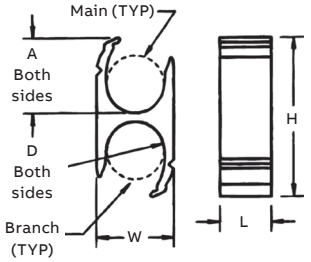


Figure 1

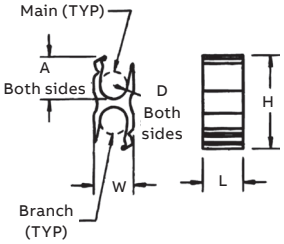


Figure 2

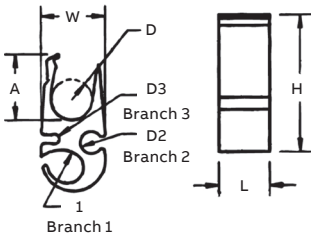


Figure 3

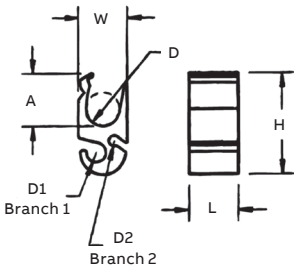


Figure 4

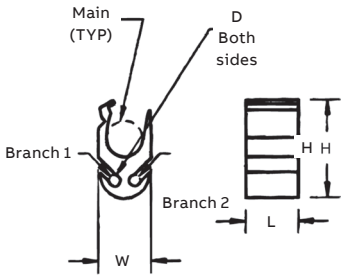


Figure 5

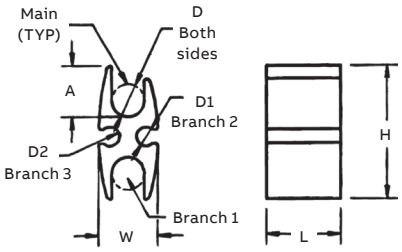


Figure 6

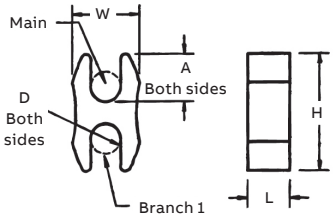


Figure 7

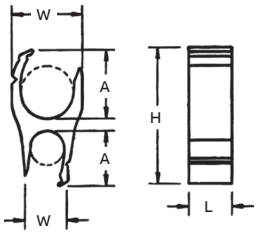


Figure 8

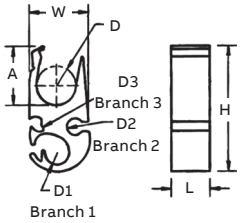


Figure 9

Aluminum H-tap connectors

Exclusive FILLERLOK tab design

Material – High-conductivity wrought aluminum

- H-type compression taps
- For aluminum-to-aluminum, aluminum-to-copper and copper-to-copper stranded-conductor applications
- Concentric and compact code strandings

Copper H-taps – Certified to 600 V 90°C applications

	Wire combinations (AWG or kcmil)				Die code cat. no.				
Cat. no.	**Main**	**Branch**	**Side tap**	**Length (in.)**	**TBM6-TBM6S TBM60RS**	**Hydraulic TBM14M 13100A**	**TBM12 12-ton head**	**TBM151 15-ton head**	**Colour code**
63105†	2–6	8–14	–	¾	13474 - upper 13477 - lower	15530	TBM12D-4	15530*	Orange
63110	4–6	4–6	–	1½	13470	15501A	TBM12D-H	15001A*	Green
63118	2/0–2	8–14	–	¾	13470	15501A	TBM12D-H	15001A*	
63125	2/0–2	1/0–6	–	1½	13470	15501A	TBM12D-H	15001A*	
63140	4/0–2/0	2–10	–	1½	13471	15502	TBM12D-H	15502*	Blue
63148•	4/0–2/0	3/0–1	8–14	3	–		TBM12D-H	15502	
63160	500–4/0	4/0–2	2–6	2¾	–	–	–	15612	Red
63169	750–4/0	750–4/0	–	3	–	–	–	15620	Black
63170	1,000–500	1,000–1/0	–	6	–	–	–	15620	
63180	750–350	350–1/0	1–6	3	–	–	–	15620	

* Use with adaptor cat.no.15500-TB.
† 63105 also installed by TBM5/TBM5S with 13455 die or TBM8/TBM8S with 13462 die.
• 63148 – #1 CU or AL - wire bent double (hairpin).
For Smart™ tools installation
63110,63118,63125: Use TBM8-750HG
63140,63148:Use TBM8-750BH
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

Interlocking insulating covers for compression taps

Better covers for taps

—
01 Smaller size requires less space in enclosure. High-impact polypropylene for rugged, dependable use.
—
02 Clear, polycarbonate (UL94V-0) version available.
—
03 Easy latch mechanism.

—
01

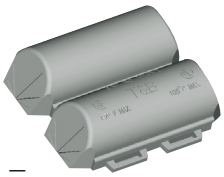
Soft shell H-tap/C-tap covers
ABB offers an improved design for one-piece covers for H-tap and C-tap connectors. The design is more size-efficient and includes an easy latch mechanism. The new covers also contain flash barriers to help protect against electrical flash overs. The covers are molded from high-impact polypropylene (UL94V-1) and are UL® listed, CSA certified to 600 V applications at 105 °C.

The soft shell covers include these features:

- **Size-efficient design**
  Won't take up as much room in the enclosure or vault, easier to store and carry to the job site
- **Easy latch mechanism**
  Quick but sturdy cover latch for optimum insulation
- **Flash barriers**
  Provides protection from electrical flashovers
- **105 °C rating**
  Offers maximum performance and higher than many competitors' temperature ratings
- **High-impact polypropylene**
  Constructed from rugged materials for long-lasting protection

Also available in clear, impact-resistant and flame-retardant polycarbonate (UL94V-0). The clear version includes an internal pocket for a visible identification label without opening the cover. Contact Customer Service for shipping and availability.

—
02



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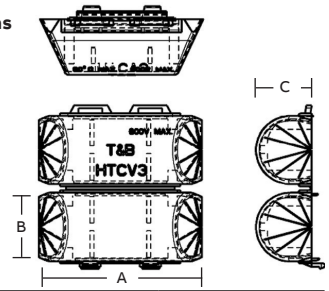
03

—
Soft shell H-tap/C-tap covers

Cat. no.	For H-taps	For C-taps	Dimensions (in.) A	B	C	Std. qty.
HTCV1	CHT814-10	54705, 54710, 54715	1¾	⅞	9/16	5
HTCV2	CHT214-9, CHT250214-8, CHT25014-7, CHT2502-6	54770, 54775, 54780	3⅜	1⅛	1	5
HTCV3	CHT50010-5, CHT50040-4	54740, 54745, 54750, 54755, 54760, 54765	3 27/32	1⅝	1 5/16	5
HTCV4	CHT75010-3, CHT750350-2, CHT750350-1F, CHT75040-11	–	5⅝	2	1 11/16	5
HTCV2CLRFR	CHT214-9, CHT250214-8, CHT25014-7, CHT2502-6	–	3⅜	1⅜	1	5

Diagrams

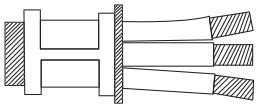


Wire joints for copper conductors

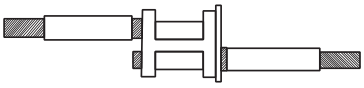
All-around compression ensures high conductivity, low resistance and high pull-out values exceeding CSA requirements

Compression wire joints for copper conductors

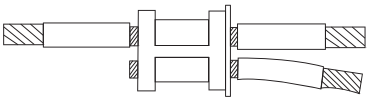
- Ideal for pigtailing, tapping multiple conductors or two-way splicing
- Form a permanent installation in minimal space
- Easily insulated
- Offer lowest installed cost
- Made of high-conductivity copper and electro tin-plated
- Colored-coded to dies for positive matching and compression



Pigtail



Two-way connector



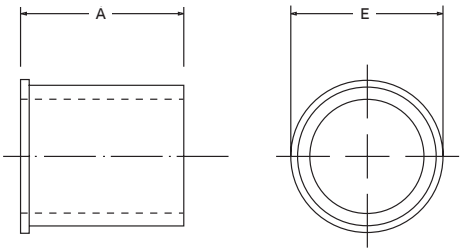
Three-way connector

AWG Size	Circular Mil Area
#14	4,107
#12	6,530
#10	10,380
#8	16,510
#6	26,250
#4	41,740
#2	66,370
#1	83,690
1/0	105,500
2/0	133,100
3/0	167,800
4/0	211,600

Compression wire joints for copper conductors

	Connector range				Dimensions (in.) mm			Installing hand tools				
	Circular mil area		Cable combination (AWG)					TBM25S/21E TBM45S	TBM8/8S	TBM5/5S	TBM6 & TBM6S	
Cat. no.	Min.	Max.	Min.	Max.	A	E	Colour code	Die cat. no.	Die cat. no.	Die cat. no.	Upper	Lower
54610	19,590	27,290	(3) #12 sol. or str.	(2) #10 w/(1) #12 sol. or str.	0.407 (10.3)	0.370 (9.4)	Blue	Included	–	–	13475	13477
54615	31,140	43,400	(3) #10 sol. or str.	(4) #10 sol. or str.	0.407 (10.3)	0.430 (10.9)	Grey	Included	13461	13454	13472	13476
54620	49,530	65,560	(3) #8 sol. or str.	(1) #4 w/(2) #10 sol. or str.	0.417 (10.6)	0.475 (12.1)	Brown	Included	–	–	13474	–
54625-TB	66,040	87,130	(4) #8 sol. or str.	(1) #2 str w/(2) #12 sol. or str.	0.479 (12.2)	0.545 (13.8)	Green	–	–	–	–	–
54630	83,480	99,990	(2) #4 sol. or str.	(2) #4 w/(1) #10 sol. or str.	0.479 (12.2)	0.585 (14.9)	Pink	–	13462	13455	13475	13477
54635	99,060	124,220	(6) #8 str.	(2) #4 w/(2) #8 sol. or str.	0.762 (19.4)	0.620 (15.7)	Black	–	–	–	13474	–
54640	125,220	166,120	(3) #4 sol. or str.	(3) #4 w/(2) #10 sol. or str.	0.762 (19.4)	0.695 (17.7)	Orange	–	–	–	–	–
54645-TB	166,960	193,630	(4) #4 sol. or str.	(2) #1 w/(2) #10 sol. or str.	0.824 (20.9)	0.770 (19.6)	Purple	–	13463	13456	13475	–
54650	189,190	244,020	(3) #2 str.	(2) #1/0 w/(2) #8 str.	0.887 (22.5)	0.830 (21.1)	Yellow	–	13463	13456	13473	13476

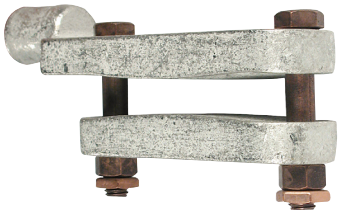
Diagrams



Hand tools only.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

Cast copper bus taps for copper conductors

Clamps onto bus bar — no drilling required



Heavy-duty bus bar taps – certified to 600 V and recommended up to 35 kV[¥] applications
Material – High-conductivity cast copper alloy
Finish – Electro tin plated
Contact material – Beryllium copper

- For bus bars up to ¼ in. thick, 3–6 in. wide and code copper cable
- Take up less than 1¼ in. of bus bar space
- Convex shape of connector tongue exerts great contact pressure on bus bar
- Install with hydraulic tools and hex crimp dies

Heavy-duty bus bar taps – Certified to 600 V and recommended up to 35 kV[¥] applications

	Wire size (AWG or kcmil)				Dimensions in. (mm)			
Cat. no.	Code cable	Flex	Fig. no.	Busbar width	A	B	C	Die code
251-31446-1	1/0	225/24	1	3	6.12 (155.4)	2.28 (57.9)	3.50 (88.9)	66H
251-31446-7	1/0	225/24	1	4	7.12 (180.8)	2.28 (57.9)	4.50 (114.3)	66H
251-31446-13	1/0	225/24	2	5 or 6	9.12 (231.6)	2.28 (57.9)	6.38 (162.1)	66H
251-31446-8	2/0	1/0, 275/24	1	4	7.12 (180.8)	2.28 (57.9)	4.50 (114.3)	66H
251-31446-14	2/0	1/0, 275/24	2	5 or 6	9.12 (231.6)	2.28 (57.9)	6.38 (162.1)	66H
251-31446-23	4/0	450/24	1	3	6.12 (155.4)	2.28 (57.9)	3.50 (88.9)	66H
251-31446-22	4/0	450/24	1	4	7.12 (180.8)	2.28 (57.9)	4.50 (114.3)	66H
251-31446-19	4/0	450/24	2	6	9.12 (231.6)	2.28 (57.9)	6.44 (163.6)	66H
251-31446-29	250	4/0, 550/24	1	3	5.68 (144.3)	2.28 (57.9)	3.38 (85.9)	66H
251-31446-30	250	4/0, 550/24	1	4	7.12 (180.8)	2.28 (57.9)	4.50 (114.3)	66H
251-31446-31	250	4/0, 550/24	1	5 or 6	9.12 (231.6)	2.28 (57.9)	6.38 (162.1)	66H
251-31446-3	350	–	1	3	6.63 (168.4)	2.56 (65.0)	3.50 (88.9)	99H
251-31446-9	350	–	1	4	7.63 (193.8)	2.56 (65.0)	4.50 (114.3)	99H
251-31446-15	350	–	2	5 or 6	9.63 (244.6)	2.56 (65.0)	6.38 (162.1)	99H
251-31446-4	500	350, 925/24	1	3	6.63 (168.4)	2.56 (65.0)	3.50 (88.9)	99H
251-31446-10	500	350, 925/24	1	4	7.63 (193.8)	2.56 (65.0)	4.50 (114.3)	99H
251-31446-16	500	350, 925/24	2	5 or 6	9.63 (244.6)	2.56 (65.0)	6.38 (162.1)	99H
251-31446-17	600	–	2	5 or 6	9.75 (247.7)	2.75 (69.9)	6.38 (162.1)	112H
251-31446-21	700	–	1	6	9.75 (247.7)	2.75 (69.9)	6.44 (163.6)	112H
251-31446-6	750	500, 1,325/24	1	3	6.75 (171.5)	2.75 (69.9)	3.50 (88.9)	112H
251-31446-12	750	500, 1,325/24	2	4	7.75 (196.6)	2.75 (69.9)	4.50 (114.3)	112H
251-31446-18	750	500, 1,325/24	2	5 or 6	9.75 (247.7)	2.75 (69.9)	6.38 (162.1)	112H
251-31446-36	–	750, 1,925/24	2	5 or 6	9.75 (247.7)	2.75 (69.9)	6.44 (163.6)	112H

Diagrams

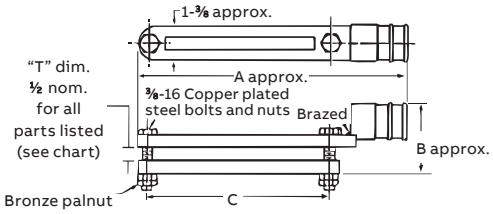


Figure 1

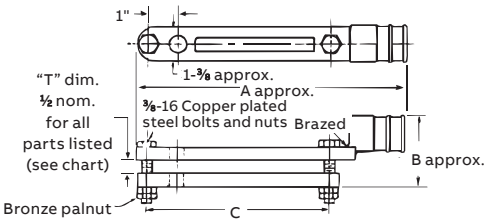


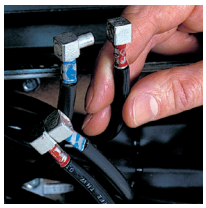
Figure 2

Double cable—Use AD suffix

Styles shown have cable tap on one portion of clamp assembly. Clamp assemblies with cable taps on both portions (top and bottom identical) are also available.
These assemblies are identified by adding suffix "AD" to catalogue numbers shown (example: 251-31446-1AD).
Only one hydraulic tools with hex crimp dies TBM12.
[¥] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

Motor pigtail connectors

Quick, reliable change-out of electric motors with no bolting, taping or loose connections



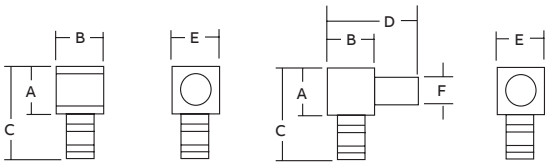
One line to one load (two wires)

- Complete line of motor lead disconnects for 600 V and 5 kV applications, covering wire range from #16 through 4/0 AWG
- Fast, snap-together assembly offers maximum labor savings
- No need for nuts, bolts and washers or insulating tape – simply slide on reusable boot
- Total assembly fits into tight motor housings
- Quick disconnect – no knife cutting of melted tape, eliminating the risk of accidental cutting of wire insulation, resulting motor downtime and installer exposure
- Meet or exceed electrical and mechanical performance of bolted connections
- Constructed of high-conductivity copper with tin-plating
- Female disconnects equipped with beryllium copper interface band for dependable connections

One line to one load (two wires)

Cat. no. certified to 600 V		Wire size	Body	Colour	Boot	Dimensions in. (mm)						Strip length
Female disconnect	Male disconnect	(AWG or kcmil)	size	code	insulation	A	B	C	D	E	F	(in.)
MD1614F-0	MD1614M-0	#16–14	0	Blue	MDBOOT-0	0.25 (6.4)	0.25 (6.4)	0.63 (16.0)	0.52 (13.2)	0.25 (6.4)	0.13 (3.2)	3/8
MD1614F-1	MD1614M-1	#16–14	1		MDBOOT-1	0.38 (9.7)	0.38 (9.7)	0.78 (19.8)	0.75 (19.1)	0.38 (9.7)	0.25 (6.4)	3/8
MD1210F-1	MD1210M-1	#12–10	1	Yellow	MDBOOT-1	0.38 (9.7)	0.35 (8.9)	0.78 (19.8)	0.75 (19.1)	0.38 (9.7)	0.25 (6.4)	3/8
MD1210F-2	MD1210M-2	#12–10	2		MDBOOT-2	0.50 (12.7)	0.50 (12.7)	0.90 (22.9)	1.00 (25.4)	0.50 (12.7)	0.37 (9.4)	3/8
MD8F-1	MD8M-1	#8	1	Red	MDBOOT-1	0.38 (9.7)	0.38 (9.7)	0.82 (20.8)	0.75 (19.1)	0.38 (9.7)	0.25 (6.4)	7/16
MD8F-2	MD8M-2	#8	2		MDBOOT-2	0.50 (12.7)	0.50 (12.7)	0.95 (24.1)	1.00 (25.4)	0.50 (12.7)	0.37 (9.4)	7/16
MD6F-1	MD6M-1	#6	1	Blue	MDBOOT-1	0.38 (9.7)	0.38 (9.7)	0.88 (22.4)	0.75 (19.1)	0.38 (9.7)	0.25 (6.4)	1/2
MD6F-2	MD6M-2	#6	2		MDBOOT-2	0.50 (12.7)	0.50 (12.7)	1.02 (30.5)	1.00 (25.4)	0.50 (12.7)	0.37 (9.4)	1/2
MD4F-2	MD4M-2	#4	2	Grey	MDBOOT-2	0.50 (12.7)	0.50 (12.7)	1.03 (40.6)	1.00 (25.4)	0.50 (12.7)	0.37 (9.4)	1/2
MD2F-2	MD2M-2	#2	2	Brown	MDBOOT-2	0.50 (12.7)	0.50 (12.7)	1.09 (48.3)	1.00 (25.4)	0.50 (12.7)	0.37 (9.4)	17/32
MD2F-3	MD2M-3	#2	3		MDBOOT-3	0.88 (22.4)	0.88 (22.4)	1.46 (37.1)	1.75 (44.5)	0.88 (22.4)	0.50 (12.7)	17/32
MD1F-2	MD1M-2	#1	2	Green	MDBOOT-2	0.50 (12.7)	0.50 (12.7)	1.23 (31.2)	1.00 (25.4)	0.50 (12.7)	0.37 (9.4)	9/16
MD1F-3	MD1M-3	#1	3		MDBOOT-3	0.88 (22.4)	0.88 (22.4)	1.56 (39.6)	1.75 (44.5)	0.88 (22.4)	0.50 (12.7)	9/16
MD10F-3	MD10M-3	1/0	3	Pink	MDBOOT-3	0.88 (22.4)	0.88 (22.4)	1.56 (39.6)	1.75 (44.5)	0.88 (22.4)	0.50 (12.7)	9/16
MD20F-3	MD20M-3	2/0	3	Black	MDBOOT-3	0.88 (22.4)	0.88 (22.4)	1.59 (40.4)	1.75 (44.5)	0.88 (22.4)	0.50 (12.7)	5/8
MD30F-3	MD30M-3	3/0	3	Orange	MDBOOT-3	0.88 (22.4)	0.88 (22.4)	1.71 (43.4)	1.75 (44.5)	0.88 (22.4)	0.50 (12.7)	11/16
MD40F-3	MD40M-3	4/0	3	Purple	MDBOOT-3	0.88 (22.4)	0.88 (22.4)	1.81 (46.0)	1.75 (44.5)	0.88 (22.4)	0.50 (12.7)	3/4
MD40F-4	MD40M-4	4/0	4		MDBOOT-4	1.25 (31.8)	1.25 (31.8)	2.89 (73.4)	2.69 (68.3)	1.25 (31.8)	0.81 (22.4)	–
MD250F-4	MD250M-4	250	4	Yellow	MDBOOT-4	1.25 (31.8)	1.25 (31.8)	2.89 (73.4)	2.69 (68.3)	1.25 (31.8)	0.81 (22.4)	–
MD350F-4	MD350M-4	350	4	Red	MDBOOT-4	1.25 (31.8)	1.25 (31.8)	2.89 (73.4)	2.69 (68.3)	1.25 (31.8)	0.81 (22.4)	–
MD500F-4	MD500M-4	500	4	Brown	MDBOOT-4	1.25 (31.8)	1.25 (31.8)	2.89 (73.4)	2.69 (68.3)	1.25 (31.8)	0.81 (22.4)	–

Diagrams



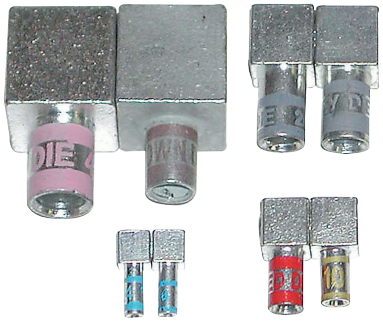
Female disconnect Male disconnect

Kits: page 71

For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

Motor pigtail connectors

Quick, easy installation



600 V version

5 kV version

One line to one load (two wires) (continued)

1) Choose appropriate Color-Keyed disconnect for conductor size to be terminated. Note color of bands on disconnect barrel.
2) Select proper installing die by matching die color to disconnect barrel color bands.
3) Install die in ABB tool, insert stripped wire into barrel of disconnect and compress between color bands. Repeat for mating half.
4) Snap the two halves together and slip on insulator over mated connection. Secure insulator with Ty-Rap® cable ties provided with the insulators.

Material – High-conductivity cast copper
Plating – Electro tin plated
Insulator – Thermoplastic elastomer
Contact Material – Beryllium Copper

One line to one load (two wires) (continued)

Cat. no. certified to 600 V			Installing tools							
				TBM6, TBM6S		TBM5, TBM5S	TBM8, TBM8S	Hydraulic tools		
Female disconnect	Male disconnect	WT112M WT111M WT2000 ERG4002 ERG4005	TBM45S	Upper die	Lower die	Die set	Die set	Die code	Colour code
MD1614F-0	MD1614M-0	X	–	–	–	–	–	–	–
MD1614F-1	MD1614M-1	X	–	–	–	–	–	–	
MD1210F-1	MD1210M-1	X	–	–	–	–	–	–	
MD1210F-2	MD1210M-2	X	–	–	–	–	–	–	
MD8F-1	MD8M-1	–	X	13475	13477	13454	13461	21	Red
MD8F-2	MD8M-2	–	X	13475	13477	13454	13461	21	
MD6F-1	MD6M-1	–	X	13475	13477	13454	13461	24	Blue
MD6F-2	MD6M-2	–	X	13475	13477	13454	13461	24	
MD4F-2	MD4M-2	–	X	13472	13476	13454	13461	29	Grey
MD2F-2	MD2M-2	–	X	13474	13477	13454	13461	33	Brown
MD2F-3	MD2M-3	–	X	13474	13477	13454	13461	33	
MD1F-2	MD1M-2	–	–	13474	13477	13455	13462	37	Green
MD1F-3	MD1M-3	–	–	13474	13477	13455	13462	37	
MD10F-3	MD10M-3	–	–	13475	13477	13455	13462	42	Pink
MD20F-3	MD20M-3	–	–	13474	13477	13455	13462	45	Black
MD30F-3	MD30M-3	–	–	13474	13477	13455	13462	50	Orange
MD40F-3	MD40M-3	–	–	13475	13477	13456	13463	54	Purple

Specifications:
Wire range: #16 to 4/0 AWG.
Rating: 600 V, 90 °C.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

Motor pigtail connectors

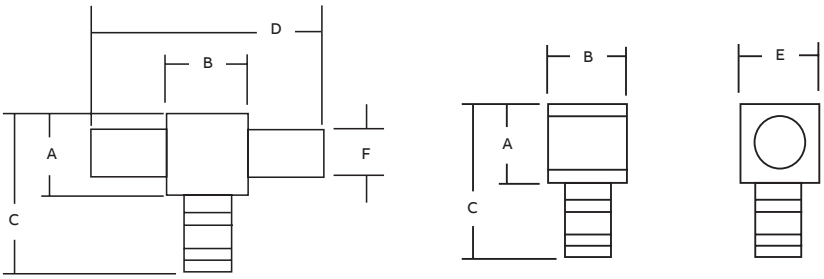
One line to two load (three wires)
- KON-TOUR™ louvered contact bands
- Colour-coded to match installing dies

Material – High-conductivity wrought copper
Finish – Electro tin plated
Contact material – Beryllium copper

One line to two load (three wires)

Cat. no. certified to 600 V						Dimensions in. (mm)						Strip length (in.)
Female disconnect	Male disconnect	Wire size (AWG)	Body size	Colour code	Boot insulation	A	B	C	D	E	F	
MD1614F-0	M2D1614M-0	#16–14 AWG	0	Blue	MDBOOT-0	0.25 (6.4)	0.25 (6.4)	0.63 (16.0)	0.52 (13.2)	0.25 (6.4)	0.13 (3.3)	3/8
MD1614F-1	M2D1614M-1	#16–14 AWG	1		MDBOOT-1	0.38 (9.7)	0.38 (9.7)	0.78 (19.8)	0.75 (19.1)	0.38 (9.7)	0.25 (6.4)	3/8
MD1210F-1	M2D1210M-1	#12–10 AWG	1	Yellow	M2DBOOT-1	0.38 (9.7)	0.35 (8.9)	0.78 (19.8)	0.75 (19.1)	0.38 (9.7)	0.25 (6.4)	3/8
MD1210F-2	M2D1210M-2	#12–10 AWG	2		M2DBOOT-2	0.50 (12.7)	0.50 (12.7)	0.90 (22.9)	1.00 (25.4)	0.50 (12.7)	0.37 (9.4)	3/8
MD8F-1	M2D8M-1	#8 AWG	1	Red	M2DBOOT-1	0.38 (9.7)	0.38 (9.7)	0.82 (20.8)	0.75 (19.1)	0.38 (9.7)	0.25 (6.4)	7/16
MD8F-2	M2D8M-2	#8 AWG	2		M2DBOOT-2	0.50 (12.7)	0.50 (12.7)	0.95 (24.1)	1.00 (25.4)	0.50 (12.7)	0.37 (9.4)	7/16
MD6F-1	M2D6M-1	#6 AWG	1	Blue	M2DBOOT-1	0.38 (9.7)	0.38 (9.7)	0.88 (22.4)	0.75 (19.1)	0.38 (9.7)	0.25 (6.4)	1/2
MD6F-2	M2D6M-2	#6 AWG	2		M2DBOOT-2	0.50 (12.7)	0.50 (12.7)	1.02 (25.9)	1.00 (25.4)	0.50 (12.7)	0.37 (9.4)	1/2
MD4F-2	M2D4M-2	#4 AWG	2	Grey	M2DBOOT-2	0.50 (12.7)	0.50 (12.7)	1.03 (26.2)	1.00 (25.4)	0.50 (12.7)	0.37 (9.4)	1/2
MD2F-2	M2D2M-2	#2 AWG	2	Brown	M2DBOOT-2	0.50 (12.7)	0.50 (12.7)	1.09 (27.7)	1.00 (25.4)	0.50 (12.7)	0.37 (9.4)	17/32
MD2F-3	M2D2M-3	#2 AWG	3		M2DBOOT-3	0.88 (22.4)	0.88 (22.4)	1.46 (37.1)	1.75 (44.5)	0.88 (22.4)	0.50 (12.7)	17/32
MD1F-2	M2D1M-2	#1 AWG	2	Green	M2DBOOT-2	0.50 (12.7)	0.50 (12.7)	1.23 (31.2)	1.00 (25.4)	0.50 (12.7)	0.37 (9.4)	9/16
MD1F-3	M2D1M-3	#1 AWG	3		M2DBOOT-3	0.88 (22.4)	0.88 (22.4)	1.56 (39.6)	1.75 (44.5)	0.88 (22.4)	0.50 (12.7)	9/16
MD10F-3	M2D10M-3	1/0 AWG	3	Pink	M2DBOOT-3	0.88 (22.4)	0.88 (22.4)	1.56 (39.6)	1.75 (44.5)	0.88 (22.4)	0.50 (12.7)	9/16
MD20F-3	M2D20M-3	2/0 AWG	3	Black	M2DBOOT-3	0.88 (22.4)	0.88 (22.4)	1.59 (40.4)	1.75 (44.5)	0.88 (22.4)	0.50 (12.7)	5/8
MD30F-3	M2D30M-3	3/0 AWG	3	Orange	M2DBOOT-3	0.88 (22.4)	0.88 (22.4)	1.71 (43.4)	1.75 (44.5)	0.88 (22.4)	0.50 (12.7)	11/16
MD40F-3	M2D40M-3	4/0 AWG	3	Purple	M2DBOOT-3	0.88 (22.4)	0.88 (22.4)	1.81 (46.0)	1.75 (44.5)	0.88 (22.4)	0.50 (12.7)	3/4

Diagrams

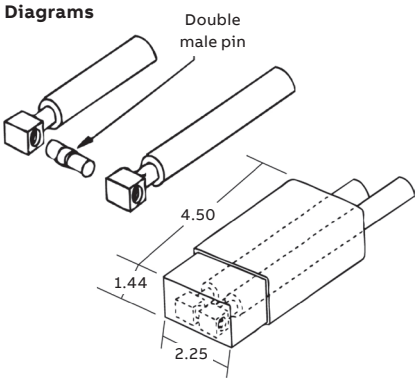


Operating range: 600 V max., 1000 V max. in signs and fixtures.
Listing: UL listed and CSA certified for 12/8 AWG solid copper conductors and stranded copper conductors in the sizes shown.
Selection: Always use the same body size when selecting male and female disconnects.
For example: to connect a 2 AWG male to an #8 AWG female, select cat. no. M2DM-2 and MD8F-2. Both have body size 2.
Insulation: Use insulating boots matching the disconnect body size as indicated in the chart.
To protect the connection from moisture and dirt, use sealing compound cat. no. MDBOOT-SEAL.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

Motor pigtail connectors

5 kV motor pigtail connectors supplied with boot, pin, silicon gel (two female connectors required)*

Diagrams



Cat. no.	Wire range (AWG)	Female disconnect Cat. no.	Colour code	Dimensions in. (mm) L	W	H	Body size
5KVBOOT-2L (connection pin for two female connectors included)	#8	MD8F-2	Red	4.50 (114.3)	2.25 (57.2)	1.44 (36.6)	2
	#6	MD6F-2	Blue	4.50 (114.3)	2.25 (57.2)	1.44 (36.6)	2
	#4	MD4F-2	Grey	4.50 (114.3)	2.25 (57.2)	1.44 (36.6)	2
	#2	MD2F-2	Brown	4.50 (114.3)	2.25 (57.2)	1.44 (36.6)	2
	#1	MD1F-2	Green	4.50 (114.3)	2.25 (57.2)	1.44 (36.6)	2
5KVBOOT-3L (connection pin for two female connectors included)	#2	MD2F-3	Brown	4.50 (114.3)	2.25 (57.2)	1.44 (36.6)	3
	#1	MD1F-3	Green	4.50 (114.3)	2.25 (57.2)	1.44 (36.6)	3
	1/0	MD10F-3	Pink	4.50 (114.3)	2.25 (57.2)	1.44 (36.6)	3
	2/0	MD20F-3	Black	4.50 (114.3)	2.25 (57.2)	1.44 (36.6)	3
	3/0	MD30F-3	Orange	4.50 (114.3)	2.25 (57.2)	1.44 (36.6)	3
	4/0	MD40F-3	Purple	4.50 (114.3)	2.25 (57.2)	1.44 (36.6)	3

CSA and UL non applicable.
* Male pin supplied will fit all ranges and combinations of wire sizes per body size.

Sealing for motor-disconnect boots

Sealant should be used with ABB motor-disconnect boots: MDBOOT-O, MDBOOT-1, MDBOOT-2 and MDBOOT-3. The cable should be clean and free of grease and other foreign substances. Apply two layers around each cable at the same distance from the connector. Slide the assembly into boot, apply Ty-Rap cable ties and work sealant around wires at end of boot to eliminate voids.

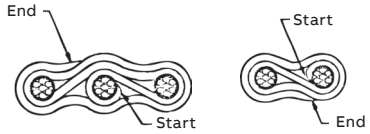
Technical specifications

- Description: polybutene compound
- Application temperature: 4 °C to 38 °C (40 °F to 100 °F)
- Service temperature: -40 °C to 82 °C (-40 °F to 180 °F)
- Dimensions: width 1 in., thickness ⅛ in., length (std. roll) 10 ft., wrapped on release liner
- Environmental resistance: resists normal aging process
- Chemical resistance: resists acids, bases and alcohols
- Dielectric strength: 200 V/mil minimum
- Volume resistivity: 1013 ohms/cm
- Flame retardancy: passed VO vertical flame test

Sealing for motor-disconnect boots

Cat. no.	Description
MDBOOT-SEAL	Sealant

Diagrams



For watertight applications, consult your Regional Sales Office for informations.

Silicone lubricant for high voltage electrical work

Cat. no.	Size	Std. pkg.
2015	5 grams	100 envelopes
SL5	5 oz./142 grams	12 tubes

KUBE flag and tee connectors

A cost-saving breakthrough in 90° and T-connections

Flag and tee connectors

Finally there's a fast, easy and affordable way to make those 90° and T electrical connections whenever and wherever you need them. Color-Keyed flags and tees are designed — and CSA/UL approved — to be used with standard Color-Keyed lugs and splices from #8 through 4/0 AWG in field-assembled configurations. Now you don't need to use high-cost flexible conductor for connections requiring 90° bending radius or expensive brazed or welded connectors for T connections. Insulated with custom-fit, halogen-free polypropylene for safety and performance, Color-Keyed flags and tees are available in bulk quantities for OEM applications and in a convenient kit for field use.

- Offers lowest installed cost for the application
- Versatile, modular design enables thousands of field-constructible connection possibilities, including multi-circuit configurations
- CSA certified and UL listed for field installation
- Insulated for fast, safe termination and installation
- Used with standard Color-Keyed lugs and splices
- Colour coded for easy selection of correct crimping die and easy certification of proper crimp
- Constructed from high-conductivity, low-resistance 99.9% pure wrought copper for optimum electrical performance
- Tin-plated for corrosion resistance and excellent contact

Technical specifications

- Connector: tin-plated copper
- Insulation: halogen-free polypropylene
- Standards: CSA Certified and UL Listed

Cat. no.	Wire size (AWG)	Insulator	Std. pkg. qty.
Flags			
FLAG1614	#16–#14	F-INSUL-0	20
FLAG1210	#12–#10	F-INSUL-0	10
FLAG8	#8	F-INSUL-1	10
FLAG6	#6	F-INSUL-1	10
FLAG4	#4	F-INSUL-2	6
FLAG2	#2	F-INSUL-2	6
FLAG1	#1	F-INSUL-2	6
FLAG10	1/0	F-INSUL-3	3
FLAG20	2/0	F-INSUL-3	3
FLAG30	3/0	F-INSUL-3	3
FLAG40	4/0	F-INSUL-3	3

Cat. no.	Wire size (AWG)	Insulator	Std. pkg. qty.
Tees			
TEE1614	#16–#14	–	20
TEE1210	#12–#10	–	10
TEE8	#8	–	10
TEE6	#6	–	10
TEE4	#4	–	6
TEE2	#2	–	6
TEE1	#1	–	6
TEE10	1/0	–	3
TEE20	2/0	–	3
TEE30	3/0	–	3
TEE40	4/0	–	3

KUBE flag and tee connectors

Make on-site custom electrical connections in:

- 90° lugs (lugs can rotate 360°)
- 90° splices
- T-lugs
- T-splices
- Countless connection possibilities using any straight or angled lug from 15° to 90° (lugs can rotate 360° for easy positioning)

Cat. no.	Wire size (AWG)	Std. pkg. qty.
Flag insulators		
F-INSUL-0	For #16–10 AWG	20/200
F-INSUL-1	For #8, #6 AWG	10/100
F-INSUL-2	For #4, #2, #1 AWG	6/60
F-INSUL-3	For 1/0, 2/0, 3/0, 4/0 AWG	3/30

Flag and tee kit contents:

- Steel carrying case
- TBM45S crimp tool
- 25 each #8, #6 and #4 AWG flag bodies
- 25 each #8, #6 and #4 AWG one-hole lugs
- 10 each #2, #1, 1/0, 2/0, 3/0 and 4/0 AWG flag bodies
- 10 each #2, #1, 1/0, 2/0, 3/0 and 4/0 AWG one-hole lugs
- 50 size 1 flag insulators
- 45 size 2 flag insulators
- 40 size 3 flag insulators
- 10 each #8 and #6 AWG tee bodies
- 20 each #8 and #6 AWG two-way splices
- 6 each #4, #2 and #1 AWG tee bodies
- 12 each #4, #2 and #1 AWG two-way splices
- 3 each 1/0, 2/0, 3/0 and 4/0 AWG tee bodies
- 6 each 1/0, 2/0, 3/0 and 4/0 AWG two-way splices

Cat. no.	Description	Std. pkg. qty.
FLAGTEEKIT	Flag and tee kit	1

Connectors for aluminum/copper code conductors

Designed and approved for use with both aluminum and copper conductors

One-hole lugs

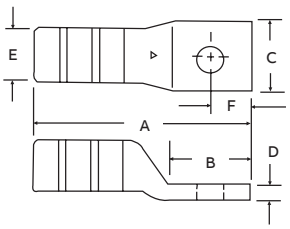
- For 90 °C certified to 600 V and recommended up to 35 kV [¥] applications
- Easily matched to the correct Color-Keyed installing die for positive compressions
- Hardened steel dies compress connector around cable, changing round strands to polygonal shapes and cold flowing strands and connector into a solid, homogenous mass
- Long compression areas ensure complete contact
- Multiple compressions prevent creep of aluminum conductors
- Filled with high-temperature oxide-inhibitor compound
- Electro tin plating prevents electrolytic corrosion of copper to ensure lowest contact resistance

Material – High-conductivity wrought aluminum
Finish – Electro tin plated

One-hole lugs[¥]

Cat no.	Cable size Al-Cu (AWG or kcmil)	Bolt size	Dimensions in. (mm) A	B	C	D	E	F	Die code	Colour code
60096	#10	#10	1.09 (27.7)	0.56 (14.2)	0.41 (10.4)	0.06 (1.5)	0.27 (6.9)	0.22 (5.6)	21	Red
60097	#10	¼	1.31 (33.3)	0.72 (18.3)	0.43 (10.9)	0.07 (1.8)	0.27 (6.9)	0.34 (8.6)	21	
60099	#10	⅜	1.53 (38.9)	0.93 (23.6)	0.58 (14.7)	0.06 (1.5)	0.27 (6.9)	0.44 (11.2)	21	
60101-TB	#8	#10	1.22 (31.0)	0.56 (14.2)	0.41 (10.4)	0.09 (2.3)	0.28 (7.1)	0.22 (5.6)	24	Blue
60102-TB	#8	¼	1.38 (35.1)	0.71 (18.0)	0.44 (11.2)	0.09 (2.3)	0.28 (7.1)	0.34 (8.6)	24	
60103-TB	#8	5/16	1.56 (39.6)	0.91 (23.1)	0.60 (15.2)	0.06 (1.5)	0.28 (7.1)	0.44 (11.2)	24	
60104-TB	#8	⅜	1.60 (40.6)	0.93 (23.6)	0.60 (15.2)	0.06 (1.5)	0.28 (7.1)	0.44 (11.2)	24	
60106-TB	#6	#10	1.52 (38.6)	0.59 (15.0)	0.47 (11.9)	0.13 (3.3)	0.35 (8.9)	0.22 (5.6)	29	Grey
60107-TB	#6	¼	1.67 (42.4)	0.75 (19.1)	0.47 (11.9)	0.13 (3.3)	0.35 (8.9)	0.34 (8.6)	29	
60108-TB	#6	5/16	1.83 (46.5)	0.91 (23.1)	0.63 (16.0)	0.09 (2.3)	0.35 (8.9)	0.44 (11.2)	29	
60109-TB	#6	⅜	1.86 (47.2)	0.93 (23.6)	0.63 (16.0)	0.09 (2.3)	0.35 (8.9)	0.44 (11.2)	29	
60112-TB	#4	¼	1.81 (46.0)	0.75 (19.1)	0.64 (16.3)	0.19 (4.8)	0.46 (11.7)	0.34 (8.6)	37	Green
60113-TB	#4	5/16	2.00 (50.8)	0.91 (23.1)	0.64 (16.3)	0.19 (4.8)	0.46 (11.7)	0.44 (11.2)	37	
60114-TB	#4	⅜	2.03 (51.6)	0.93 (23.6)	0.64 (16.3)	0.19 (4.8)	0.46 (11.7)	0.44 (11.2)	37	
60116-TB	#2	¼	1.91 (48.5)	0.75 (19.1)	0.72 (18.3)	0.19 (4.8)	0.51 (13.0)	0.34 (8.6)	42	Pink
60117-TB	#2	5/16	2.06 (52.3)	0.91 (23.1)	0.72 (18.3)	0.19 (4.8)	0.51 (13.0)	0.44 (11.2)	42	
60118-TB	#2	⅜	2.09 (53.1)	0.93 (23.6)	0.72 (18.3)	0.19 (4.8)	0.51 (13.0)	0.44 (11.2)	42	
60120	#2	½	2.25 (57.2)	1.41 (35.8)	0.88 (22.4)	0.19 (4.8)	0.51 (13.0)	0.69 (17.5)	42	
60122	#1	¼	2.30 (58.4)	0.81 (20.6)	0.75 (19.1)	0.19 (4.8)	0.56 (14.2)	0.34 (8.6)	45	Gold
60123	#1	5/16	2.39 (60.7)	0.91 (23.1)	0.75 (19.1)	0.19 (4.8)	0.56 (14.2)	0.44 (11.2)	45	
60124	#1	⅜	2.42 (61.5)	0.93 (23.6)	0.75 (19.1)	0.19 (4.8)	0.56 (14.2)	0.44 (11.2)	45	
60126	#1	½	2.89 (73.4)	1.41 (35.8)	0.88 (22.4)	0.16 (4.1)	0.56 (14.2)	0.69 (17.5)	45	
60128	1/0	¼	2.36 (59.9)	0.81 (20.6)	0.88 (22.4)	0.19 (4.8)	0.62 (15.7)	0.34 (8.6)	50	Tan
60129	1/0	5/16	2.51 (63.8)	0.97 (24.6)	0.88 (22.4)	0.19 (4.8)	0.62 (15.7)	0.44 (11.2)	50	
60130	1/0	⅜	2.51 (63.8)	0.97 (24.6)	0.88 (22.4)	0.19 (4.8)	0.62 (15.7)	0.44 (11.2)	50	
60132	1/0	½	2.95 (74.9)	1.41 (35.8)	0.94 (23.9)	0.19 (4.8)	0.62 (15.7)	0.69 (17.5)	50	

Diagram



[¥] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

Connectors for aluminum/copper code conductors

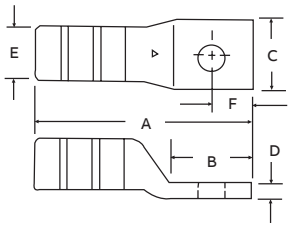
Designed and approved for use with both aluminum and copper conductors

Material – High-conductivity wrought aluminum
Finish – Electro tin plated

One-hole lugs[x] (continued)

Cat no.	Cable size Al-Cu (AWG or kcmil)	Bolt size	Dimensions in. (mm) A	B	C	D	E	F	Die code	Colour code
60134	2/0	¼	2.48 (63.0)	0.87 (22.1)	0.97 (24.6)	0.22 (5.6)	0.70 (17.8)	0.34 (8.6)	54	Olive
60135	2/0	5/16	2.64 (67.1)	1.03 (26.2)	0.97 (24.6)	0.22 (5.6)	0.70 (17.8)	0.44 (11.2)	54	
60136	2/0	⅜	2.64 (67.1)	1.03 (26.2)	0.97 (24.6)	0.22 (5.6)	0.70 (17.8)	0.44 (11.2)	54	
60138	2/0	½	3.10 (78.7)	1.41 (35.8)	1.03 (26.2)	0.22 (5.6)	0.70 (17.8)	0.69 (17.5)	54	
60140	3/0	¼	2.58 (65.5)	0.87 (22.1)	1.06 (26.9)	0.22 (5.6)	0.77 (19.6)	0.34 (8.6)	60	Ruby
60141	3/0	5/16	2.83 (71.9)	1.09 (27.7)	1.06 (26.9)	0.22 (5.6)	0.77 (19.6)	0.44 (11.2)	60	
60142	3/0	⅜	2.83 (71.9)	1.09 (27.7)	1.06 (26.9)	0.22 (5.6)	0.77 (19.6)	0.44 (11.2)	60	
60144	3/0	½	3.15 (80.0)	1.41 (35.8)	1.06 (26.9)	0.22 (5.6)	0.77 (19.6)	0.69 (17.5)	60	
60147	4/0	5/16	3.53 (89.7)	0.88 (22.4)	1.21 (30.7)	0.25 (6.4)	0.86 (21.8)	0.38 (9.7)	66	White
60148	4/0	⅜	3.59 (91.2)	0.93 (23.6)	1.21 (30.7)	0.25 (6.4)	0.86 (21.8)	0.38 (9.7)	66	
60150	4/0	½	3.90 (99.1)	1.25 (31.8)	1.21 (30.7)	0.25 (6.4)	0.86 (21.8)	0.50 (12.7)	66	
60151	4/0	⅝	4.65 (118.1)	2.00 (50.8)	1.21 (30.7)	0.25 (6.4)	0.86 (21.8)	0.75 (19.0)	66	
60154	250	⅜	3.73 (94.7)	0.93 (23.6)	1.29 (32.8)	0.27 (6.9)	0.92 (23.4)	0.38 (9.7)	71	Red
60156	250	½	4.05 (102.9)	1.25 (31.8)	1.29 (32.8)	0.27 (6.9)	0.92 (23.4)	0.50 (12.7)	71	
60157	250	⅝	4.80 (121.9)	2.00 (50.8)	1.29 (32.8)	0.27 (6.9)	0.92 (23.4)	0.75 (19.0)	71	
60159	300	5/16	3.75 (95.3)	0.88 (22.4)	1.39 (35.3)	0.28 (7.1)	0.99 (25.1)	0.38 (9.7)	76	Blue
60160	300	⅜	3.80 (96.5)	0.93 (23.6)	1.39 (35.3)	0.28 (7.1)	0.99 (25.1)	0.38 (9.7)	76	
60162	300	½	4.13 (104.9)	1.25 (31.8)	1.39 (35.3)	0.28 (7.1)	0.99 (25.1)	0.50 (12.7)	76	
60165	350	½	4.83 (122.7)	1.25 (31.8)	1.53 (38.9)	0.33 (8.4)	1.09 (27.7)	0.50 (12.7)	87	Brown
60166	350	⅝	5.58 (141.7)	2.00 (50.8)	1.53 (38.9)	0.33 (8.4)	1.09 (27.7)	0.75 (19.0)	87	
60168	400	½	4.95 (125.7)	1.25 (31.8)	1.65 (41.9)	0.38 (9.7)	1.18 (30.0)	0.50 (12.7)	94	Green
60171	500	½	4.95 (125.7)	1.25 (31.8)	1.79 (45.5)	0.38 (9.7)	1.28 (32.5)	0.50 (12.7)	99	Pink
60172	500	⅝	5.70 (144.8)	2.00 (50.8)	1.79 (45.5)	0.38 (9.7)	1.28 (32.5)	0.75 (19.0)	99	
60174	600	⅝	5.83 (148.1)	2.00 (50.8)	1.92 (48.8)	0.37 (9.4)	1.36 (34.5)	0.75 (19.0)	106	Black
60176	700	⅝	5.95 (151.1)	2.00 (50.8)	2.04 (51.8)	0.38 (9.7)	1.44 (36.6)	0.75 (19.0)	112	Purple
60178	750	⅝	6.03 (153.2)	2.00 (50.8)	2.13 (54.1)	0.40 (10.2)	1.50 (38.1)	0.75 (19.0)	115	Yellow
60184	1,000	⅝	6.78 (172.2)	2.00 (50.8)	2.50 (63.5)	0.50 (12.7)	1.77 (45.0)	0.75 (19.0)	140	–

Diagram



[x] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements. Call your regional sales office for sizes not listed.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

Connectors for aluminum/copper code conductors

Designed and approved for use with both aluminum and copper conductors

Two-hole lugs

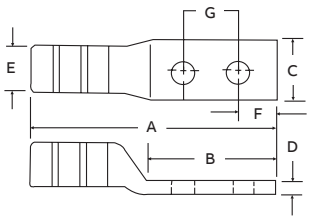
- For 90 °C certified to 600 V and recommended up to 35 kV ¥ applications
- For aluminum and copper concentric conductors and compact code aluminum strandings
- Filled with oxide-inhibitor compound

Material – High-conductivity wrought aluminum
Finish – Electro tin plated

Two-hole lugs

Cat no.	Cable size (AWG or kcmil)	Bolt size (in.)	Dimensions in. (mm) A	B	C	D	E	F	G	Die code	Colour code
60230	1/0	⅜	3.50 (88.9)	1.90 (48.3)	0.88 (22.4)	0.19 (4.8)	0.62 (15.7)	0.38 (9.7)	1.00 (25.4)	50	Tan
60236	2/0	⅜	3.50 (88.9)	1.90 (48.3)	0.97 (24.6)	0.22 (5.6)	0.70 (17.8)	0.38 (9.7)	1.00 (25.4)	54	Olive
60238	2/0	½	5.03 (127.8)	3.41 (86.6)	0.97 (24.6)	0.22 (5.6)	0.70 (17.8)	0.75 (19.1)	1.75 (44.5)	54	
60242	3/0	⅜	3.66 (93.0)	1.18 (30.0)	1.06 (27.0)	0.22 (5.6)	0.77 (19.6)	0.38 (9.7)	1.00 (25.4)	60	Ruby
60244	3/0	½	5.16 (131.1)	3.41 (86.6)	0.06 (1.5)	0.22 (5.6)	0.77 (19.6)	0.75 (19.1)	1.75 (44.5)	60	
60248	4/0	⅜	4.58 (116.3)	1.18 (30.0)	1.21 (30.7)	0.25 (6.4)	0.86 (21.8)	0.38 (9.7)	1.00 (25.4)	66	White
60250	4/0	½	5.65 (143.5)	3.41 (86.6)	1.21 (30.7)	0.25 (6.4)	0.86 (21.8)	0.50 (12.7)	1.75 (44.5)	66	
60254	250	⅜	4.73 (120.1)	1.93 (49.0)	1.29 (32.8)	0.27 (6.9)	0.92 (23.4)	0.38 (9.7)	1.00 (25.4)	71	Red
60256	250	½	5.80 (147.3)	3.00 (76.2)	1.29 (32.8)	0.27 (6.9)	0.92 (23.4)	0.50 (12.7)	1.75 (44.5)	71	
60260	300	⅜	4.80 (121.9)	1.93 (49.0)	1.39 (35.3)	0.28 (7.1)	0.99 (25.1)	0.38 (9.7)	1.00 (25.4)	76	Blue
60262	300	½	5.88 (149.4)	3.00 (76.2)	1.39 (35.3)	0.28 (7.1)	0.99 (25.1)	0.50 (12.7)	1.75 (44.5)	76	
60265	350	⅜	5.50 (139.7)	1.93 (49.0)	1.53 (38.9)	0.33 (8.4)	1.09 (27.7)	0.38 (9.7)	1.00 (25.4)	87	Brown
60267	350	½	6.58 (167.1)	3.00 (76.2)	1.53 (38.9)	0.33 (8.4)	1.09 (27.7)	0.50 (12.7)	1.75 (44.5)	87	
60268	400	⅜	5.63 (143.0)	1.93 (49.0)	1.65 (41.9)	0.38 (9.7)	1.18 (30.0)	0.38 (9.7)	1.00 (25.4)	94	Green
60269	400	½	6.70 (170.2)	3.00 (76.2)	1.65 (41.9)	0.38 (9.7)	1.18 (30.0)	0.50 (12.7)	1.75 (44.5)	94	
60271	500	⅜	5.63 (143.0)	1.93 (49.0)	1.79 (45.5)	0.38 (9.7)	1.28 (32.5)	0.38 (9.7)	1.00 (25.4)	99	Pink
60273	500	½	6.70 (170.2)	3.00 (76.2)	1.79 (45.5)	0.38 (9.7)	1.28 (32.5)	0.50 (12.7)	1.75 (44.5)	99	
60274	600	⅜	5.75 (143.1)	1.93 (49.0)	1.92 (48.8)	0.37 (9.4)	1.36 (34.5)	0.38 (9.7)	1.00 (25.4)	106	Black
60275	600	½	6.83 (173.5)	3.00 (76.2)	1.92 (48.8)	0.37 (9.4)	1.36 (34.5)	0.50 (12.7)	1.75 (44.5)	106	
60276	700	⅜	5.88 (149.4)	1.93 (49.0)	2.04 (51.8)	0.38 (9.7)	1.44 (36.6)	0.38 (9.7)	1.00 (25.4)	112	Purple
60277	700	½	6.95 (176.5)	3.00 (76.2)	2.04 (51.8)	0.38 (9.7)	1.44 (36.6)	0.50 (12.7)	1.75 (44.5)	112	
60278	750	½	7.15 (181.6)	3.00 (76.2)	2.13 (54.1)	0.40 (10.2)	1.50 (38.1)	0.50 (12.7)	1.75 (44.5)	115	Yellow
60284	1,000	½	7.78 (197.6)	3.00 (76.2)	2.50 (63.5)	0.50 (12.7)	1.77 (45.0)	0.50 (12.7)	1.75 (44.5)	140	–

Diagram



Bolt holes ⅜ in. on 1 in. centers, ½ in. on 1¾ in. centers.
¥ For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

Connectors for aluminum/copper code conductors

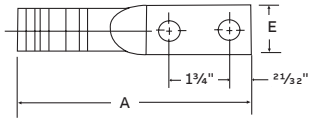
Range-taking narrow-tongue single-barrel lugs
- For 90 °C certified to 600 V and recommended up to 35 kV[¥] applications
- Bolt holes on 1¾ in. centers
- Wire barrel factory-filled with oxide-inhibitor compound

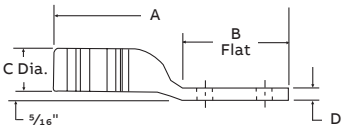
Material – Aluminum
Finish – Tin-plated

Range-taking narrow-tongue single-barrel lugs

Cat no.	Cable size Al-Cu (kcmil)	Bolt size (in.)	No. of compression hydraulic 12 ton tool or higher	Dimensions in. (mm) A	B	C	D	E	Hex die code	Colour code
60273N	350–500	½	4	6.88 (174.8)	3.13 (79.5)	1.28 (32.5)	0.41 (10.4)	1.50 (38.1)	99H	Pink
60278N	500–750	½	4	7.13 (181.1)	3.69 (93.7)	1.50 (38.1)	0.50 (12.7)	1.50 (38.1)	115H	Yellow
60267NT	350	½	4	6.25 (158.75)	3.00 (76.2)	1.09 (27.68)	0.50 (12.7)	1.09 (27.68)	87H	Brown
60273NT	500	½	3	5.06 (128.52)	3.00 (76.2)	1.18 (30.17)	0.50 (12.7)	1.18 (30.17)	94H	Green
60275NT	600	½	3	5.38 (136.52)	3.00 (76.2)	1.30 (33.14)	0.50 (12.7)	1.30 (33.14)	99H	Pink
60278NT	750	½	3	5.38 (136.52)	3.00 (76.2)	1.03 (26.16)	0.50 (12.7)	1.30 (33.14)	99H	Pink

Diagrams





[¥] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

Connectors for aluminum/copper code conductors

For aluminum-to-copper or aluminum-to-aluminum splicing

Two-way splice connectors

- Connectors are pre-filled with oxide-inhibitor
- For 90 °C certified to 600 V and recommended up to 35 kV[¥] applications
- For aluminum and copper concentric conductors and compact code aluminum strandings
- Permit aluminum conductors to be spliced to copper or aluminum conductors

Material – High-conductivity wrought aluminum
Finish – Electro tin plated

Two-way splice connectors

Cat. no.	Cable size (AWG or kcmil)	Dimensions in. (mm) A	Dimensions in. (mm) E	Die code	Colour code
60500-TB	#10 Str.	1.00 (25.4)	0.27 (6.9)	21	Red
60501-TB	#8 Str.	1.19 (30.2)	0.28 (7.1)	24	Blue
60507-TB	#6 Str.	1.63 (41.4)	0.35 (8.9)	29	Grey
60512	#4 Str.	1.81 (46.0)	0.46 (11.7)	37	Green
60516	#2 Str./#3 Str.	1.81 (46.0)	0.51 (13.0)	42	Pink
60522-TB	#1 Str.	2.38 (60.5)	0.56 (14.2)	45	Gold
60530-TB	1/0	2.38 (60.5)	0.62 (15.7)	50	Tan
60536	2/0	2.50 (63.5)	0.70 (17.8)	54	Olive
60542	3/0	2.81 (71.4)	0.77 (19.6)	60	Ruby
60548	4/0	3.66 (93.0)	0.86 (21.8)	66	White
60554	250	3.91 (99.3)	0.92 (23.4)	71	Red
60560	300	3.97 (100.8)	0.99 (25.1)	76	Blue
60565	350	4.97 (126.2)	1.09 (27.7)	87	Brown
60568	400	4.97 (126.2)	1.18 (30.0)	94	Green
60571	500	4.97 (126.2)	1.28 (32.5)	99	Pink
60574	600	5.22 (132.6)	1.36 (34.5)	106	Black
60576	700	5.44 (138.2)	1.44 (36.6)	112	Purple
60578	750	5.69 (144.5)	1.50 (38.1)	115	Yellow
60584	1,000	6.69 (169.9)	1.77 (45.0)	140	–

[¥] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

Connectors for aluminum/copper code conductors

Splice aluminum conductors to copper conductors of equal ampacities

Aluminum reducing connectors

- For 90 °C, certified to 600 V and recommended up to 35 kV[¥] applications
- Filled with high-temperature oxide-inhibitor compound
- Designed for the right combination of equivalent sizes (example: 4/0 aluminum to 2/0 copper)
- Selection table gives aluminum/copper equivalents to all sizes

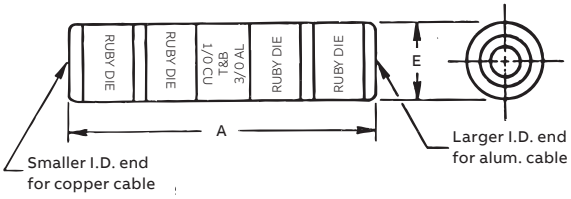
Material – High-conductivity wrought aluminum
Finish – Electro tin plated

Installing tools:
TBM5(S) #10 AWG – 4/0 AWG
TBM6(S) #10 AWG – 350 kcmil
TBM8(S) #10 AWG – 350 kcmil

Aluminum reducing connectors

Cat. no.	Cable size (AWG or kcmil) Al	Cu	Dimensions in. (mm) A	E	Die code	Colour key
60905-TB	#8	#10	0.81 (20.6)	0.28 (7.1)	24	Blue
60910	#6	#8	1.63 (41.4)	0.34 (8.6)	29	Grey
60915	#4	#6	1.81 (46.0)	0.44 (11.2)	37	Green
60925	#1	#3	2.38 (60.5)	0.53 (13.5)	45	Gold
60930	1/0	#2	2.38 (60.5)	0.63 (16.0)	50	Tan
60935	2/0	#1	2.50 (63.5)	0.69 (17.5)	54	Olive
60940	3/0	1/0	2.81 (71.4)	0.75 (19.1)	60	Ruby
60945	4/0	2/0	3.75 (95.3)	0.88 (22.4)	66H	White
60950	250	3/0	4.00 (101.6)	0.94 (23.9)	71H	Red
60955	300	4/0	4.06 (103.4)	1.00 (25.4)	76H	Blue
60960	350	4/0	5.06 (128.5)	0.09 (2.3)	87H	Brown
60965	400	250	5.06 (128.5)	1.22 (31.0)	94H	Green
60970	500	350	5.06 (128.5)	1.31 (33.3)	99H	Pink
60975	600	400	5.31 (134.9)	1.34 (34.0)	106H	Black
60980	700	500	5.56 (141.2)	1.44 (36.6)	112H	Purple
60985	750	500	5.81 (147.6)	1.50 (38.1)	115H	Yellow

Diagram



[¥] For installations from 16 kV up to 35 kV, consult shielded cable manufacturers for stress relief and insulation requirements.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

Connectors for aluminum/copper code conductors

Much smaller than standard aluminum lugs for the same cable size

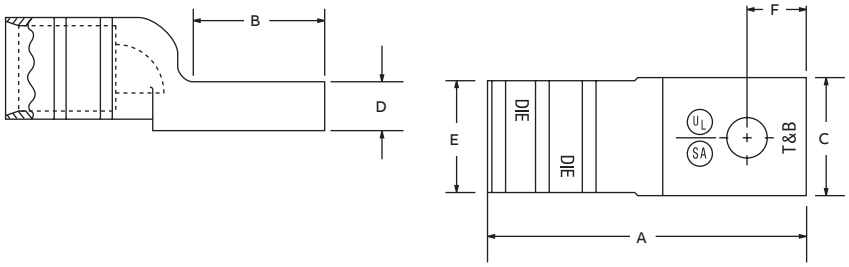
One-hole aluminum compact-size equipment lugs

- For 90°C, certified 600 V applications
- For use with aluminum cables only
- Can be directly substituted for equipment mechanical lugs in most applications
- Only 7 dies handle all 14 lug sizes
- Factory-filled with joint compound
- Electro tin plated
- Supplied with Neoprene insulating covers

One-hole aluminum compact-size equipment lugs

Cat. no.	Aluminum cable (AWG or kcmil) size	Aluminum range (AWG or kcmil) taking*	Bolt hole (in.)	Dimensions in. (mm) A	B	C	D	E	F
61102	#8	–	¼	1.33 (33.8)	0.54 (13.7)	0.50 (12.7)	0.14 (3.6)	0.37 (9.4)	0.25 (6.4)
61107	#6	–	¼	1.33 (33.8)	0.54 (13.7)	0.50 (12.7)	0.14 (3.6)	0.37 (9.4)	0.25 (6.4)
61112	#4	–	¼	1.33 (33.8)	0.54 (13.7)	0.50 (12.7)	0.14 (3.6)	0.37 (9.4)	0.25 (6.4)
61116	#2	–	¼	1.75 (44.5)	0.68 (17.3)	0.55 (14.0)	0.20 (5.1)	0.48 (12.2)	0.25 (6.4)
61122	#1	–	¼	1.75 (44.5)	0.68 (17.3)	0.55 (14.0)	0.20 (5.1)	0.48 (12.2)	0.25 (6.4)
61130	1/0	#8–1/0	⅜	2.00 (50.8)	0.83 (21.1)	0.64 (16.3)	0.20 (5.1)	0.57 (14.5)	0.38 (9.7)
61136	2/0	#1–2/0	⅜	2.00 (50.8)	0.83 (21.1)	0.64 (16.3)	0.20 (5.1)	0.57 (14.5)	0.38 (9.7)
61142	3/0	–	⅜	2.50 (63.5)	1.08 (27.4)	0.78 (19.8)	0.23 (5.8)	0.70 (17.8)	0.38 (9.7)
61148	4/0	2/0–4/0	⅜	2.50 (63.5)	1.08 (27.4)	0.78 (19.8)	0.23 (5.8)	0.70 (17.8)	0.38 (9.7)
61156	250	–	½	2.50 (63.5)	1.23 (31.2)	0.98 (24.9)	0.25 (6.4)	0.85 (21.6)	0.50 (12.7)
61162	300	#4–300	½	2.50 (63.5)	1.23 (31.2)	0.98 (24.9)	0.25 (6.4)	0.85 (21.6)	0.50 (12.7)
61165	350	250–350	½	3.25 (82.6)	1.23 (31.2)	1.20 (30.5)	0.41 (10.4)	1.04 (26.4)	0.56 (14.2)
61171	500	2/0–500	½	3.25 (82.6)	1.23 (31.2)	1.20 (30.5)	0.41 (10.4)	1.04 (26.4)	0.56 (14.2)
61178	750	500–750	⅝	3.75 (95.3)	1.54 (39.1)	1.49 (37.8)	0.41 (10.4)	1.33 (33.8)	0.81 (20.6)

Diagrams



*For range-taking capability, use TBM8-750/TBM8-750M-1 Smart Tools.
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

Transformer lug kits for aluminum code conductors

Everything you need to connect to a transformer in one convenient kit

Transformer lug kits

- For 90 °C, certified 600 V applications
- For use with aluminum cables only
- Include all necessary range-taking compression or mechanical-type lugs and bolting hardware to connect to designated transformers
- Lugs pre-filled with oxide inhibitor

Transformer lug kits

Transformer		Terminal lugs			Kit contents						
kVA sizes	Kit cat. no.	Al cable (AWG or kcmil) range*	Description	Qty.	Nuts	Qty.	Bolts	Qty.	Washers	Qty.	Std. pkg.
Compression lugs											
15–37-½ 1Ø	611CL-SK1	#8–1/0	Color-Keyed compression equipment lugs	8	¼–20	8	¼–20 x 1 in.	8	Flat ¼ in. Spring ¼ in.	8	1
15–45 3Ø	611CL-SK1	#4–300	Color-Keyed compression equipment lugs	4	¼–20	8	–	8	Flat ¼ in. Spring ¼ in.	8	1
50–75 1Ø	611CL-SK2	#4–300	Color-Keyed compression equipment lugs	12	¼–20	16	¼–20 x 1 in.	8	Flat ¼ in. Spring ¼ in.	16	1
75–112-½ 3Ø	611CL-SK2	#4–300	Color-Keyed compression equipment lugs	12	¼–20	16	¼–20 x 2 in.	8	Flat ¼ in. Spring ¼ in.	16	1
100–167 1Ø	611CL-SK3	#4–300	Color-Keyed compression equipment lugs	3	¼–20	3	¼–20 x ¾ in.	3	Flat ¼ in. Spring ¼ in.	3	1
150–300 3Ø	611CL-SK3	#2/0–500	Color-Keyed compression equipment lugs	22	⅜–16	16	⅜–16 x 2 in.	16	Flat ⅜ in. Spring ⅜ in.	16	1
100–167 1Ø	611CL-SK3-500	#4–300	Color-Keyed compression equipment lugs	3	¼–20	3	¼–20 x 1 in.	3	Flat ¼ in. Spring ¼ in.	3	1
150–300 3Ø	611CL-SK3-500	#2/0–500	Color-Keyed compression equipment lugs	22	⅜–16	16	⅜–16 x 2 in.	16	Flat ⅜ in. Spring ⅜ in.	16	1
500 3Ø	611CL-SK4	#500–750	Color-Keyed compression equipment lugs	29	⅜–16	18	⅜–16 x 2 in.	18	Flat ⅜ in. Spring ⅜ in.	18	1
Mechanical lugs											
15–37-½ 1Ø	622ML-SK1	#14–2	Mechanical lugs	8	¼–20	8	¼–20 x ¾ in.	8	Flat ¼ in. Spring ¼ in.	8	1
15–45 3Ø	622ML-SK1	#6–250	Mechanical lugs	4	¼–20	–	–	8	Flat ¼ in. Spring ¼ in.	8	1
50–75 1Ø	622ML-SK2	#6–250	Mechanical lugs	12	¼–20	16	¼–20 x ¼ in.	8	Flat ¼ in. Spring ¼ in.	16	1
75–112-½ 3Ø	622ML-SK2	#6–250	Mechanical lugs	12	¼–20	16	¼–20 x 1-¾ in.	8	Flat ¼ in. Spring ¼ in.	16	1
100–167 1Ø	622ML-SK3	#6–250	Mechanical lugs	3	¼–20	3	¼–20 x ¾ in.	3	Flat ¼ in. Spring ¼ in.	3	1
150–300 3Ø	622ML-SK3	350–800	Mechanical lugs	22	⅜–16	16	⅜–16 x 2 in.	16	Flat ⅜ in. Spring ⅜ in.	16	1
500 3Ø	622ML-SK4	350–800	Mechanical lugs	29	⅜–16	18	⅜–16 x 2 in.	18	Flat ⅜ in. Spring ⅜ in.	18	1

*To ensure proper range-taking compression on Color-Keyed equipment lugs, use Smart Tools (cat. nos. TBM8-750/TBM8-750M-1).
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

Pin connectors for aluminum/copper code conductors

Converts an aluminum cable into a two-sizes-smaller copper pigtail

Bi-pin® bi-metal pin connectors

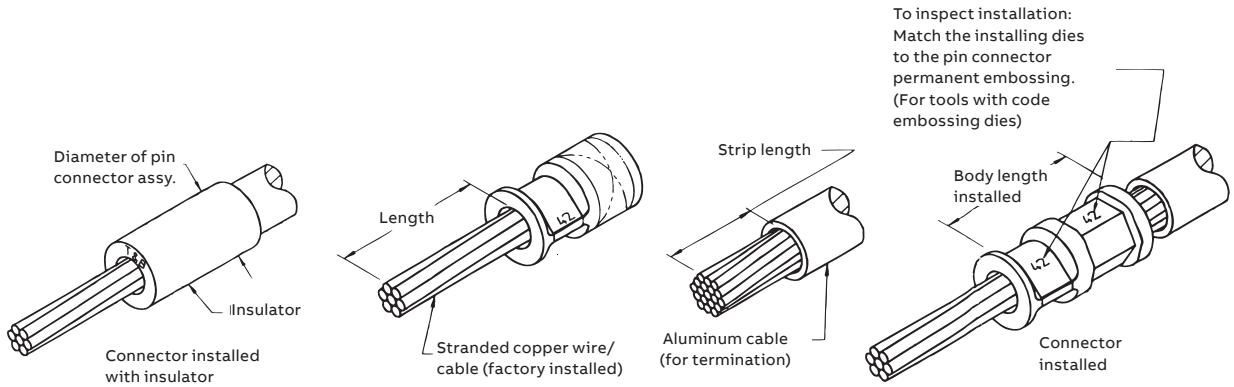
- For 90 °C, 600 V applications
- Upgrades connection by eliminating cold flow and oxidation of aluminum
- Reduces oversized aluminum cable
- Enables termination of aluminum cable into a copper-only lug
- Barrel prefilled with joint compound

Material – Copper wire/aluminum body
Finish – Electro tin plated
Insulator – Neoprene (600 V dielectric rating)

Bi-pin bi-metal pin connectors

Cat. no. insulating covers	Cat. no. heat shrink covers	Aluminum cable size (AWG or kcmil)	Copper wire size (AWG or kcmil)	Body length after installing (in.)	Die code no.	Colour code
61905A	61905AT	#8	#10	1.88	24	Blue
61910A	61910AT	#6	#8	1.88	24	
61915A	61915AT	#4	#6	1.56	45	Gold
61920A	61920AT	#2	#4	1.56	45	
61925A	61925AT	#1	#3	1.63	50	Orange
61930A	61930AT	1/0	#2	1.63	50	
61935	61935T	2/0	#1	1.94	50	
61940	61940T	3/0	1/0	2.13	60	Ruby
61945	61945T	4/0	2/0	2.13	60	
61950	61950T	250	3/0	2.19	66	White
61955	61955T	300	4/0	2.50	71H	Red
61960	61960T	350	250	2.50	71H	
61963	61963T	400	250	3.75	87H	Brown
61965	61965T	500	350	3.75	87H	
61970	61970T	600	400	3.75	107H	Orange
61975	61975T	700–750	500	3.75	107H	

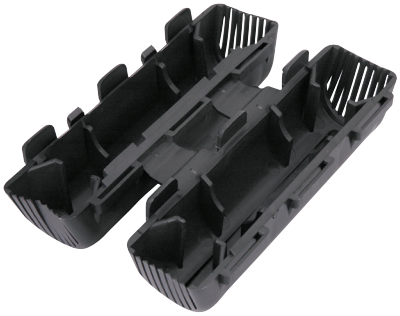
Diagrams



Hand tools – Smart Tools
For tool and die selection charts, see the section E31-E48 of the Tools, Dies and Kits catalogue.

Insulating covers for H-type compression taps

Quick and easy insulation for H-type compression taps



Interlocking insulating soft covers

- Ideal for pigtailing, 2-way splicing or tapping to an unbroken continuous main
- Insulation covers are not reusable

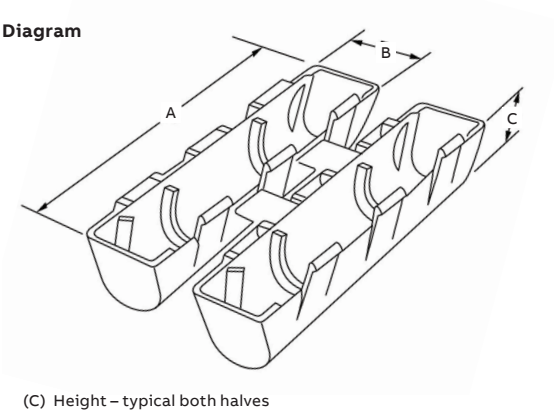
Technical specifications

- Material: Flame-retardant, high-impact polypropylene
- Colour: Black
- Voltage rating: 600 V max.
- Temperature: 90 °C

Interlocking insulating soft covers

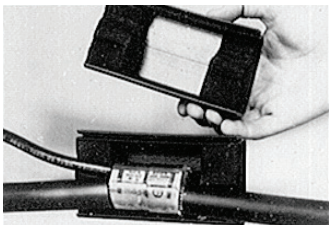
Cat. no.	Wire range (AWG or kcmil) Max.	Min.	Al H-taps	Use to insulate	Dimensions in. (mm) A	B	C
HT20C	2/0	#6	63110/63115 63125/63120	–	4.50 (114.3)	1.25 (31.8)	1.12 (28.4)
HT40C	4/0	#6	63140 63148	–	5.60 (142.2)	1.40 (35.6)	1.18 (30.0)
HT600C	500	#2	63160	63169	6.81 (173.0)	2.12 (53.8)	1.60 (40.6)
HT1000C	1,000–500	250–1/0 AWG	63180	–	7.25 (184.15)	2.330+0.066	–
HT1000C-L		250–250	63170		10.374 (263.40)	2.330+0.066	–

Diagram



(C) Height – typical both halves

Insulating covers for H-type compression taps



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01 These insulating covers provide hard-shell insulated protection for "H" type compression taps and splices, and because there is no taping required, you get uniform quality and appearance each time. The exclusive locking design provides the range-taking capability. Only five H-tap insulating catalogue cover numbers accommodate the range of #6 AWG–1000 kcmil in the main, and #12 AWG–500 kcmil in the branch.

Insulating hard covers

- For indoor use in splice boxes and trays
- Easy to use – simply place H-tap in cover and snap cover closed
- Consult your regional sales office for available flame-retardant version
- Hard shell outer covers guard inner seal, keep out dust
- Installs quickly and easily without special tools – simply snaps together
- Eliminate time-consuming taping
- Provide high-quality, neat, uniform installations
- Range-taking design reduces inventory

—
For H-tap applications

Cat. no.	Al H-tap	Cu H-tap
HTC2	63105	–
HTC2S	–	CHT814-10
HTC40	63110	CHT214-9
	63118	CHT250214-8
	63125	CHT2514-7
	63140	CHT2502-6
HTC500	63148	CHT50010-5/CHT50040-4
	63160	CHT75010-3/CHT750350-2
HTC1000L	63170	–
HTC1000	63180/63169	CHT750350-1F

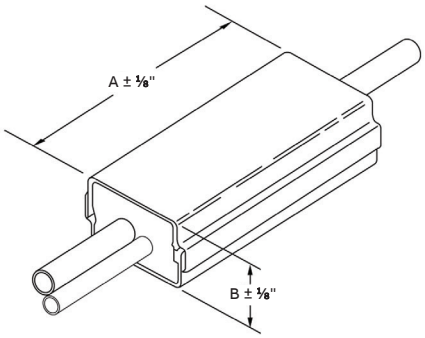
—
For C-tap applications

Cat. no.	C-tap	Color code
HTC40	54720	Brown
	54725	Green
	54730	Pink
	54755	Blue
	54760	Brown
HTC40L2	54735	Black
	54740	Orange
	54745	Purple
	54750	Yellow
HTC500	54765	Pink
	54770	Black
	54775	Yellow
	54780	White
	54785	–
HTC1000	54790	–

	Dimensions in. (mm)		
Cat. no.	A (length)	B (thick)	C (width)
HTC2S	2.00 (50.8)	1.12 (28.4)	1.43 (36.3)
HTC2	3.50 (88.9)	1.12 (28.4)	1.43 (36.3)
HTC40	4.25 (108.0)	1.56 (39.6)	2.00 (50.8)
HTC500	6.00 (152.4)	1.75 (44.5)	2.75 (69.9)
HTC1000	7.00 (177.8)	2.38 (60.5)	3.88 (98.6)
HTC1000L	10.00 (25.4)	2.38 (60.5)	3.88 (98.6)

Interlocking insulating covers for "H" type compression taps.
For use in splice boxes, indoors or in tray indoors.
Place the H-tap in the cover and snap the cover closed.
Consult your regional sales office for flame-retardant version.
Technical data: HTC2 and HTC2S use insulation wrap instead of end cushions for inner seal.
Connector cat. nos. 54755 through 54790 and 63148 through 63180 require hydraulic crimping tools. Refer to instruction sheet.
Materials:
- Outer hard shell covers – High-impact black thermoplastic (Noryl), flammability class, UL 94V-1.
- Inner seal – Black neoprene sponge soft closed cell, oxygen index 28% UL 94 HBF.
Temperature rating – 90 °C maximum.
Certified voltage rating – 600 V maximum.
Note: Insulating covers are not reusable.

Dimensions



Parallel splices

Ideal for use in transformer and motor/turbine windings

Color-Keyed parallel splices offer conductor-splicing solutions for hundreds of OEM, utility and communications applications. They're especially well suited for use in the manufacturing, repair and servicing of windings for transformers, motors, generators and turbines. Rely on them for excellent reliability, long-term performance and a CSA certified connection at a low-installed cost.

- Accommodate multiple wire sizes from #22 AWG to 500 kcmil for application flexibility
- Simple extruded-tube design for ease of use
- Chamfered barrel ends eliminate high-voltage corona and partial discharge failures
- Easy to install with standard compression crimp tools
- 99.9% pure copper for low resistance and high conductivity – tin-plated for corrosion resistance
- Certified for 600 V

Tools

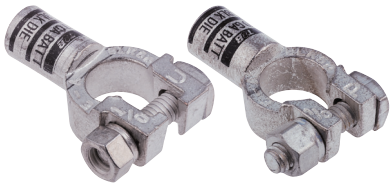
Cat. no.	Tools
540008	WT-115A, TBM8-750MI, TBM8-780BSCR
540006	TBM8-780M-I, TBM*-750BSCR, ERG2008 (6 AWG die)
540700	TBM8-750M-1, TBM*-750BSCR
540800 – 540900	TBM15I with die 15600X and 15615X
541000	TBM15I with die 15600X and 15604X

Parallel splices

Cat. no.	Min. wire range (AWG or kcmil)	Max. wire range (AWG or kcmil)	Cir. mil range*	Length (in.)	O.D. (in.)	I.D. (in.)	Std. pkg.
540008	#10 & #14	(2) #10	13,000–20,800	0.375	0.260	0.180	5000
540006	(2) #10 & #14	(2) #10 & (3) #14	20,800–33,100	0.500	0.365	0.266	5000
540004	(2) #8 & #14	(2) #6	33,100–52,600	0.531	0.410	0.302	2500
540002	(3) #8 & #14	(2) #4	52,600–83,700	0.640	0.521	0.396	2500
540010	(6) #8	(2) #4 & (1) #6	83,700–119,500	0.750	0.571	0.446	1000
540020	(3) #4	#1 & #2	119,500–150,500	0.750	0.632	0.507	1000
540030	(4) #4	(2) #1 & (2) #10	150,500–190,000	0.750	0.701	0.564	500
540040	(3) #2	1/0 & (3) #4	190,000–231,100	0.770	0.766	0.629	500
540250	3/0 & (4) #8	3/0 & (8) #8	231,100–300,000	1.063	0.926	0.749	250
540300	2/0 & (4) #4	300 & (3) #6	300,000–380,000	1.125	1.100	0.882	100
540400	250 & (5) #6	4/0 & (4) #2	380,000–478,000	1.250	1.200	0.956	100
540500	400 & (3) #6	250 & (13) #6	478,000–600,000	1.438	1.330	1.060	50
540600	(2) 2/0 & (2) 3/0	(2) 4/0 & (2) 2/0	601,800–689,400	1.500	1.500	1.187	60
540700	350, 4/0 & 1/0	(3) 4/0 & (1) 1/0	667,100–740,300	1.531	1.550	1.253	60
540800	(7) 1/0	250, (2) 3/0 & (2) 2/0	738,500–851,800	1.562	1.650	1.353	60
540900	500 & 350	(2) 350 & (1) 250	850,000–950,000	1.625	1.750	1.453	30
541000	(2) 350 & (1) 250	(2) 500 & (1) 3/0	950,000–1,167,800	1.625	1.875	1.578	30

* The total combined cross-sectional area of all wires must be within the circular mil range for the splice.

Heavy-duty battery connectors and tools

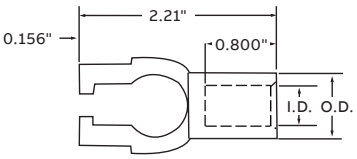


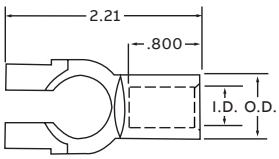
Material – High-conductivity copper
Finish – Electro tin plated
Installing tools – TBM5-SV, TBM5V, TBM8250S

Tin-plated straight battery connectors

Cat. no.	Bulk cat. no.	SAE cable size (gauge)	Description	I.D. (in.)	O.D. (in.)	Pkg. qty.	Bulk pkg. qty.	Colour code
BAC4SUBT	BAC4SUBT-C	4	Straight Universal	0.261	0.430	5	100	Grey
BAC2SUBT	BAC2SUBT-C	2	Straight Universal	0.340	0.550	5	100	Green
BAC1SUBT	BAC1SIBT-C	1	Straight Universal	0.340	0.550	5	100	Pink
BAC10SUBT	BAC10SUBT-C	1/0	Straight Universal	0.455	0.625	5	100	Black
BAC20SUBT	BAC20SUBT-C	2/0	Straight Universal	0.502	0.676	5	100	Orange
BAC30SUBT	BAC30SUBT-C	3/0	Straight Universal	0.530	0.730	5	100	Purple
BAC40SUBT	BAC40SUBT-C	4/0	Straight Universal	0.600	0.844	5	100	Yellow
BAC4SPBT	BAC4SPBT-C	4	Straight Positive	0.261	0.430	5	100	Grey
BAC4SNBT	BAC4SNBT-C	4	Straight Negative	0.261	0.430	5	100	
BAC2SPBT	BAC2SPBT-C	2	Straight Positive	0.340	0.550	5	100	Green
BAC2SNBT	BAC2SNBT-C	2	Straight Negative	0.340	0.550	5	100	
BAC1SPBT	BAC1SPBT-C	1	Straight Positive	0.340	0.550	5	100	Pink
BAC1SNBT	BAC1SNBT-C	1	Straight Negative	0.340	0.550	5	100	
BAC10SPBT	BAC10SPBT-C	1/0	Straight Positive	0.455	0.625	5	100	Black
BAC10SNBT	BAC10SNBT-C	1/0	Straight Negative	0.455	0.625	5	100	
BAC20SPBT	BAC20SPBT-C	2/0	Straight Positive	0.502	0.676	5	100	Orange
BAC20SNBT	BAC20SNBT-C	2/0	Straight Negative	0.502	0.676	5	100	
BAC30SPBT	BAC30SPBT-C	3/0	Straight Positive	0.530	0.730	5	100	Purple
BAC30SNBT	BAC30SNBT-C	3/0	Straight Negative	0.530	0.730	5	100	
BAC40SPBT	BAC40SPBT-C	4/0	Straight Positive	0.600	0.844	5	100	Yellow
BAC40SNBT	BAC40SNBT-C	4/0	Straight Negative	0.600	0.844	5	100	

Diagrams





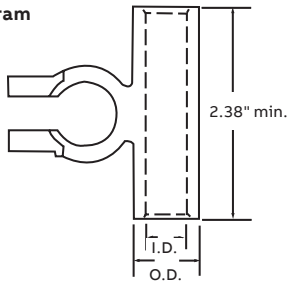
Heavy-duty battery connectors and tools

Material – High-conductivity copper
Finish – Electro tin plated
Installing tools – TBM5-SV, TBM5V

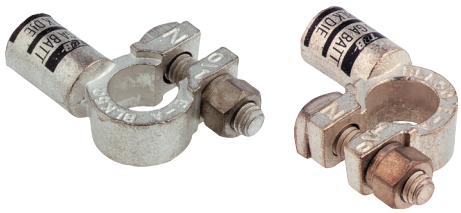
Tin-plated flag battery connectors

Cat. no.	Bulk cat. no.	SAE cable size (gauge)	Description	I.D. (in.)	O.D. (in.)	Pkg. qty.	Bulk pkg. qty.	Colour code
BAC10FU	BAC10FNBL	1/0	Flag Universal	0.455	0.625	5	100	Black
BAC20FU	BAC20FNBL	2/0	Flag Universal	0.502	0.676	5	100	Orange
BAC30FU	BAC30FNBL	3/0	Flag Universal	0.530	0.730	5	100	Purple
BAC40FU	BAC40FNBL	4/0	Flag Universal	0.600	0.844	5	100	Yellow
BAC10FPBT	BAC10FPBT-C	1/0	Flag Positive	0.455	0.625	5	100	Black
BAC10FNBT	BAC10FNBT-C	1/0	Flag Negative	0.455	0.625	5	100	
BAC20FPBT	BAC20FPBT-C	2/0	Flag Positive	0.502	0.676	5	100	Orange
BAC20FNBT	BAC20FNBT-C	2/0	Flag Negative	0.502	0.676	5	100	
BAC30FPBT	BAC30FPBT-C	3/0	Flag Positive	0.530	0.730	5	100	Purple
BAC30FNBT	BAC30FPBT-C	3/0	Flag Negative	0.530	0.730	5	100	
BAC40FPBT	BAC40FPBT-C	4/0	Flag Positive	0.600	0.844	5	100	Yellow
BAC40FNBT	BAC40FNBT-C	4/0	Flag Negative	0.600	0.844	5	100	

Diagram



Heavy-duty battery connectors and tools

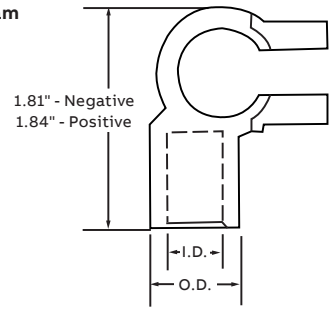


Material – High-conductivity copper
Finish – Electro tin plated
Installing tools – TBM5-SV, TBM5V

Tin-plated elbow battery connectors

Cat. no.	Bulk cat. no.	SAE cable size (gauge)	Description	I.D. (in.)	O.D. (in.)	Pkg. qty.	Bulk pkg. qty.	Colour code
BAC10ERNBT	BAC10ERNBT-C	1/0	Right Elbow–Negative	0.455	0.625	5	100	Black
BAC10ERPBT	BAC10ERPBT-C	1/0	Right Elbow–Positive	0.455	0.625	5	100	
BAC20ERNBT	BAC20ERNBT-C	2/0	Right Elbow–Negative	0.502	0.676	5	100	Orange
BAC20ERPBT	BAC20ERPBT-C	2/0	Right Elbow–Positive	0.502	0.676	5	100	
BAC30ERNBT	BAC30ERNBT-C	3/0	Right Elbow–Negative	0.530	0.730	5	100	Purple
BAC30ERPBT	BAC30ERPBT-C	3/0	Right Elbow–Positive	0.530	0.730	5	100	
BAC40ERNBT	BAC40ERNBT-C	4/0	Right Elbow–Negative	0.600	0.844	5	100	Yellow
BAC40ERPBT	BAC40ERPBT-C	4/0	Right Elbow–Positive	0.600	0.844	5	100	
BAC10ELNBT	BAC10ELNBT-C	1/0	Left Elbow–Negative	0.455	0.625	5	100	Black
BAC10ELPBT	BAC10ELPBT-C	1/0	Left Elbow–Positive	0.455	0.625	5	100	
BAC20ELNBT	BAC20ELNBT-C	2/0	Left Elbow–Negative	0.502	0.676	5	100	Orange
BAC20ELPBT	BAC20ELPBT-C	2/0	Left Elbow–Positive	0.502	0.676	5	100	
BAC30ELNBT	BAC30ELNBT-C	3/0	Left Elbow–Negative	0.530	0.730	5	100	Purple
BAC30ELPBT	BAC30ELPBT-C	3/0	Left Elbow–Positive	0.530	0.730	5	100	
BAC40ELNBT	BAC40ELNBT-C	4/0	Left Elbow–Negative	0.600	0.844	5	100	Yellow
BAC40ELPBT	BAC40ELPBT-C	4/0	Left Elbow–Positive	0.600	0.844	5	100	

Diagram



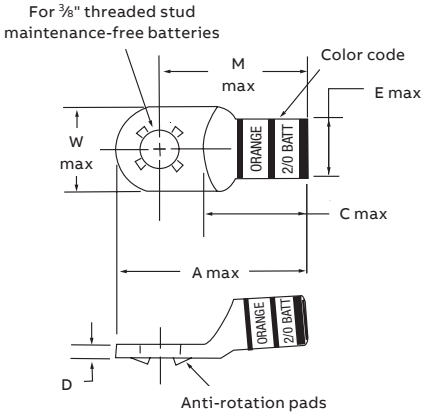
Heavy-duty battery connectors and tools

Material – High-conductivity copper
Finish – Lead-plated
Installing tools – TBM5-SV or TBM5V

Stackable battery connectors – Lead-plated

Cat. no.	Bulk cat. no.	SAE cable size (gauge)	Dimensions in. (mm) A ±0.040	M ±0.020	W ±0.020	C ±0.020	E ±0.010	Stud size (in.)	Pkg. qty.	Bulk pkg. qty.	Colour code
BAC438	273-31853-1	4	1.46 (37.0)	1.14 (29.0)	0.62 (15.6)	0.75 (19.1)	0.37 (9.3)	3/8	10	100	Grey
BAC238	273-31853-2	2	1.78 (45.1)	1.40 (35.6)	0.68 (17.1)	0.85 (21.6)	0.47 (11.9)	3/8	10	100	Green
BAC138	273-31853-3	1	1.88 (47.6)	1.50 (38.1)	0.75 (44.5)	0.95 (24.1	0.52 (13.2)	3/8	10	100	Pink
BAC1038	273-31853-4	1/0	1.93 (48.9)	1.55 (39.4)	0.83 (21.0)	1.00 (25.4)	0.57 (14.5)	3/8	10	100	Black
BAC2038	273-31853-5	2/0	2.11 (53.6)	1.65 (41.8)	0.93 (23.6)	1.10 (27.9)	0.63 (16.1)	3/8	10	100	Orange
BAC3038	273-31853-6	3/0	2.03 (51.4)	1.65 (41.9)	1.03 (26.0)	1.10 (27.9)	0.70 (17.8)	3/8	10	100	Purple
BAC4038	273-31853-7	4/0	2.23 (57.8)	1.90 (48.3)	1.03 (26.0)	1.35 (34.3)	0.77 (19.5)	3/8	10	100	Yellow

Diagram



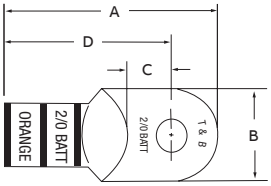
Heavy-duty battery connectors and tools

Material – High-conductivity copper
Finish – Electro tin plated
Installing tools – TBM5-SV or TBM5V

Starter lugs – Tin-plated

Cat. no.	Bulk cat. no.	SAE cable size (gauge)	Stud size (in.)	Dimensions (mm) A ±0.04	B ±0.02	C ±0.02	D ±0.02	Pkg. qty.	Bulk pkg. qty.	Colour code
BAL414	273-31852-1	4	¼	140	52	40	115	10	100	Grey
BAL4516	273-31852-2	4	5/16	145	61	363	114	10	100	
BAL438	273-31852-3	4	⅜	145	61	6	114	10	100	
BAL2516	–	2	5/16	159	69	40	1258	10	–	Green
BAL238	273-31852-4	2	⅜	178	67	55	140	10	100	
BAL212	273-31852-5	2	½	177	76	54	140	10	100	
BAL1516	–	1	5/16	183	76	49	150	10	–	Pink
BAL138	273-31852-6	1	⅜	185	75	55	150	10	100	
BAL112	273-31852-7	1	½	220	75	75	170	10	100	
BAL10516	–	1/0	5/16	192	83	50	150	10	–	Black
BAL1038	273-31852-8	1/0	⅜	193	83	55	155	10	100	
BAL1012	273-31852-9	1/0	½	197	88	53	153	10	100	
BAL20516	–	2/0	5/16	206	93	50	160	10	–	Orange
BAL2038	273-31852-10	2/0	⅜	211	93	55	165	10	100	
BAL2012	273-31852-11	2/0	½	211	93	55	165	10	100	
BAL30516	–	3/0	5/16	216	103	55	165	10	–	Purple
BAL3038	273-31852-12	3/0	⅜	203	103	55	165	10	100	
BAL3012	273-31852-13	3/0	½	235	103	75	185	10	100	
BAL40516	–	4/0	5/16	240	113	59	184	10	–	Yellow
BAL4038	273-31852-14	4/0	⅜	228	112	55	190	10	100	
BAL4012	273-31852-15	4/0	½	260	112	75	210	10	100	

Diagram



Heavy-duty battery connectors and tools

Material – High-conductivity copper
Finish – Electro tin plated
Installing tools – TBM5-SV or TBM5V

Splices (two-way connectors)

Cat. no.	Bulk cat. no.	SAE cable size (gauge)	Pkg. qty.	Bulk pkg. qty.	Colour code
BAS4	273-31852-16	4	10	100	Grey
BAS2	273-31852-17	2	10	100	Green
BAS1	273-31852-18	1	10	100	Pink
BAS10	273-31852-19	1/0	10	100	Black
BAS20	273-31852-20	2/0	10	100	Orange
BAS30	273-31852-21	3/0	10	100	Purple
BAS40	273-31852-22	4/0	10	100	Yellow

Material – High-conductivity copper
Finish – Electro tin plated
Installing tools – TBM5-SV or TBM5V
Insulating cover – AC5X3

"Y" splices

Cat. no.	Strip cable size	SAE cable size (gauge)	Length (in.)	Colour code
BASY20	2/0–(2) #2	2/0	¾	Orange
BASY30	3/0–(2) #1	3/0	¾	Purple
BASY40	4/0–(2) 1/0	4/0	¾	Yellow

Heavy-duty battery connectors and tools

Abrasion-resistant and engineered for optimum performance at both high and low temperatures

Battery/starter cables

- Fine flexible copper rope stranding PVC jacket conforms to SAE J1127 specifications
- Layer of paper separates insulation from copper, providing easy stripping with no stranding damage
- Temperature-rated for 80 °C
- Flexibility ideal for tight spaces and cold environments
- Color-Keyed markings for fast and accurate identification
- Marked in 1-ft. increments for easy measurement
- Available in red or black jacket colour

Material – High-conductivity copper
Finish – Electro tin plated
Installing tools – TBM5-SV or TBM5V

Battery/starter cables

Cat. no.	SAE cable size (gauge)	Cable length (ft.)	Cable colour
BC4-100	4	100	Black
BC2-100	2	100	
BC1-100	1	100	
BC10-100	1/0	100	
BC20-100	2/0	100	
BC30-100	3/0	100	
BC40-100	4/0	100	
BC4-1000	4	1,000	
BC2-500	2	500	
BC1-500	1	500	
BC10-500	1/0	500	
BC20-500	2/0	500	
BC30-500	3/0	500	
BC40-500	4/0	500	
BC4-1000R	4	1,000	Red
BC2-500R	2	500	
BC1-500R	1	500	
BC10-500R	1/0	500	
BC20-500R	2/0	500	
BC30-500R	3/0	500	
BC40-500R	4/0	500	

Cat. no.	SAE cable size (gauge)	Cable length (ft.)	Cable colour
BC4-25	4	25	Black
BC2-25	2	25	
BC1-25	1	25	
BC10-25	1/0	25	
BC20-25	2/0	25	
BC30-25	3/0	25	
BC40-25	4/0	25	
BC4-25R	4	25	Red
BC2-25R	2	25	
BC1-25R	1	25	
BC10-25R	1/0	25	
BC20-25R	2/0	25	
BC30-25R	3/0	25	
BC40-25R	4/0	25	

Heavy-duty battery cable

Specially designed for demanding industrial and OEM requirements

- 105 °C Temperature-rated and UL recognized
- Heavier PVC jacket conforms to SAE J1127 specifications
- Color-Keyed markings for fast and accurate identification
- Marked in 1-ft. increments for easy measurement
- Layer of paper separates insulation from copper for easy stripping with no strand damage
- 600 V rated available in bulk only
- Application-specific – To order, contact your regional sales offices

Heavy-duty battery connectors and tools

BCT840, BCT840S

TBM5SV, TBM5V

BCT840, BCT840S:

- Adjustable die crimping tools for Color-Keyed cast and tubular connectors
- The single die is an integral part of the tool; no dies to lose or misplace
- Available with Shure Stake mechanism to ensure a complete crimp every time (BCT840S)
- Crimp casting and tubular connectors ranging from #4 to 4/0 AWG

TBM5SV, TBM5V:

- Heavy-duty crimping tool including dies for #8–4/0 AWG battery connectors, lugs and splices
- Available with Shure Stake mechanism to ensure a complete crimp every time (TBM5S)

Crimping tools

Cat. no.	Description	Pkg. qty.
BCT840	Dieless crimp tool for cast and tubular battery connectors	1
BCT840S	Dieless crimp tool with Shure-Stake mechanism for cast and tubular battery connectors	1
TBM5V	Ratchet crimp tool with die for #8 to 4/0 AWG battery connectors	1
TBM5-SV	Ratchet crimp tool with Shure-Stake mechanism and die for #8 to 4/0 AWG battery connectors	1

- Cuts cable up to 500 kcmil
- Fiberglass handles and carbon steel blades
- For copper and aluminum cable only

Cable cutter

Cat. no.	Description	Pkg. qty.
364RF	Cutter for up to 500 kcmil copper and aluminum	1

Contact Tool Service for replacement blades.

Cable stripper

Cat. no.	Description	Pkg. qty.
BCS8-40	Cable stripper for #8 to 4/0 AWG battery cable with replacement blade provided in the handle	1

Accessories and miscellaneous hardware

Copper colloidal surface treatment protects, lubricates and enhances conductivity of all electrical connections

- Unique, homogenized blend of pure, polished colloidal copper, rust and corrosion inhibitors
- Simultaneously protects, lubricates and enhances conductivity of mating surfaces
- Extremely adhesive compound flows smoothly into uneven contours and voids, ensuring easy application and complete, positive protection and lubrication
- Won't settle out, thin, thicken, harden or dry out under the most severe environmental conditions
- Excellent temperature characteristics– can be brushed on at -45.5 °C (-50 °F) to 121 °C (250 °F) (other compounds either turn solid or run like water at these extremes) and remains intact at short terms even at 980 °C (1,800 °F)

Good connections are one of the most important aspects of electrical work. Mechanics know how much downtime is caused when fluids or oils leak into the raceway system or when they have to look for a weak link in a ground system caused by a high-resistance connection. Mechanics also know how much time is spent keeping contacts, switches, lugs and other connectors clean or replacing parts because of "green scourge" buildup. ABB has the solution to improve connections made in thousands of electrical and raceway installations made each day by electricians everywhere. Kopr-Shield® compound may be used to advantage in all electrical installations. When the environment is hostile to electrical and mechanical connections, Kopr-Shield compound is a must.

Use Kopr-Shield compound for battery lugs and cables to:
- Prevent "green scourge" corrosion
- Reduce resistance
- Ease terminal installation and removal

Use Kopr-Shield compound for raceways to:
- Lubricate for ease of assembly and disassembly
- Improve grounding continuity (exceeds code requirements)

Use Kopr-Shield compound for fuse clips to:
- Eliminate hot spots for even heat distribution
- Prevent oxidation by preventing carbon path formation
- Lubricate for easy installation and removal of fuses

Use Kopr-Shield compound for wiping contacts, drum switches and slip rings to:
- Prevent galling, burning, pitting and discoloration
- Suppress arcing and dissipation of coronas
- Lubricate for ease of operation

Kopr-Shield joint compound

Cat. no.	Description	Std. pkg.	Weight lb/C
201-31879	1½-oz. Container with brush	96	11.46
201-31879-1	4-oz. Container with brush	24	38.54
CP8-TB	8-oz. Container with brush	12	64.58
CP16	16-oz. Container with brush	12	120.83
CP128	1-Gallon can	4	952.00

ALUMA-SHIELD aluminum joint compound

Cat. no.	Contains	Description
21059	1-pt. Squeeze bottle	For aluminum cable connections; contains fine zinc particles which break through oxide film on cable strands upon compression of connection; ensures a low resistance contact and seals out air and moisture.
AP8	8-oz. Brush cap can	
M53	5-Gallon can	

Accessories and miscellaneous hardware

Belleville compression washers

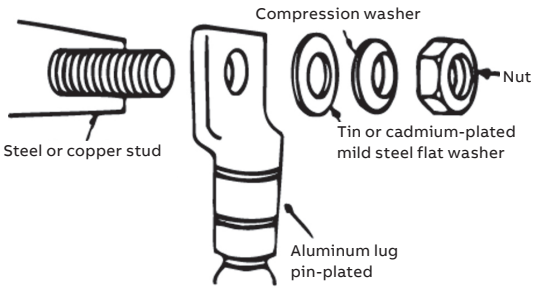
- Essential when bolting aluminum lugs and connectors to bus bars with steel or brass hardware
- Maintain constant pressure in heavy-duty, high-temperature applications
- Available with or without flat washer

When bolting aluminum lugs and connectors to bus bars with steel or brass hardware, the recommended practice to ensure a tight connection is to use a Belleville spring washer on top of a flat washer under the bolt head or nut. For heavy-duty service where the heat rise is expected to exceed 30 °C above ambient, this procedure maintains constant pressure as the connector metals expand and contract with temperature changes.

Belleville compression washers

					Dimensions in. (mm)
		Flat washer		Belleville washer	
Cat. no.	Bolt size (in.)	O.D.	Thickness	O.D.	Thickness
Belleville compression washers plus flat washer					
60800B	1/4	0.75 (19.1)	0.07 (1.8)	0.69 (17.5)	0.06 (1.5)
60801B	5/16	0.88 (22.1)	0.07 (1.8)	0.81 (20.6)	0.07 (1.8)
60802B	3/8	1.00 (25.4)	0.08 (2.0)	0.94 (23.9)	0.08 (2.0)
60803B	1/2	1.25 (31.8)	0.11 (2.8)	0.81 (20.6)	0.10 (2.5)
Belleville compression washer only					
60800	1/4	–	–	0.69 (17.5)	0.06 (1.5)
60801	5/16	–	–	0.81 (20.6)	0.07 (1.8)
60802	3/8	–	–	0.94 (23.9)	0.08 (2.0)
60803	1/2	–	–	0.81 (20.6)	0.10 (2.5)
60804	5/8	–	–	1.50 (38.1)	0.11 (2.8)

Diagram



Note: Ordering quantity must be in unit quantities and multiples thereof.
The Belleville washer should be installed with a larger flat washer to spread the high stresses of the compression washer edges over a large area of the lug and/or bus bar.

Dragon Tooth® transition washers

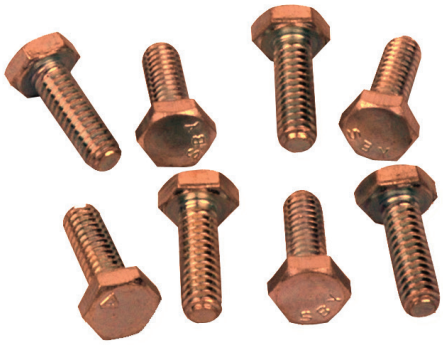
Quick, dependable and versatile.

- Connect copper-to-aluminum, copper-to-copper or aluminum-to-aluminum components
- Toothed surface penetrates aluminum and copper oxides
- Lower installed cost – no need to grind aluminum surfaces, apply compounds or use spring-type washers

Dragon Tooth transition washers

Cat. no.	Size (in.)	Bolt torque (in.-lb)
DTW14	1/4	50–80
DTW516	5/16	125–160
DTW38	3/8	160–240
DTW12	1/2	390–540
DTW58	5/8	540–730

Accessories and miscellaneous hardware



Hex head bolts and nuts

Cat. no. Diameter and threads per inch				Length (in.)
¼ in.–20	5/16 in.–18	⅜ in.–16	½ in.–13	
Type BB — Silicon bronze hex head bolts				
25100BB-C	31100BB-C	37100BB-C	50100BB-C	1
–	31125BB-C	37125BB-C	50125BB-C	1¼
–	31150BB-C	37150BB-C	50150BB-C	1½
–	31175BB-C	37175BB-C	50175BB-C	1¾
–	32100BB-C	37200BB-C	50200BB-C	2
25225BB-C	31225BB-C	37225BB-C	50225BB-C	2¼
–	31250BB-C	37250BB-C	50250BB-C	2½
–	31275BB-C	37275BB-C	50275BB-C	2¾
–	31300BB-C	37300BB-C	50300BB-C	3
–	–	37325BB-C	50325BB-C	3¼
–	–	37350BB-C	50350BB-C	3½
Type HN — Silicon bronze hex nuts				
14010HN-C	31010HN-C	37010HN-C	50010HN-C	–

Washers

Cat. No.	Bolt size (in.)	O.D. (in.)	I.D. (in.)	Thickness (in.)	Height (in.)
Type SW — Silicon bronze split lock washers					
14030SW-C	¼	–	–	–	–
31030SW-C	5/16	–	–	–	–
37030SW-C	⅜	–	–	–	–
50030SW-C	½	–	–	–	–
Type FW — Silicon bronze flat washers					
14040FW-C	¼	¼	11/16	0.260	0.040
31040FW-C	5/16	5/16	⅞	0.336	0.064
37040FW-C	⅜	⅜	1	0.395	0.064
50040FW-C	½	½	1¼	0.562	0.091
Type BW – Belleville compression washer 304 series stainless steel					
50050BW-C	½	1⅛	17/32	0.062	1/8

Accessories and miscellaneous hardware

Sealants and lubricants

Type CT — CONTAX™ oxide inhibiting compound

- Seals electrical connections from oxygen and moisture
- Non-water soluble, non-petroleum based polymer grease
- Nontoxic, will not irritate the skin
- Service temperature to 238 °C (460 °F); can be applied in -18 °C (0 °F) weather

Cat. no.	Description
CTA	½ oz. Package
CTB	4 oz. Plastic bottle
CTB8	8 oz. Plastic bottle
CTQ	Quart can
CTG	Gallon can

Silicone lubricant for high voltage electrical work

Cat. No.	Description	Pkg. qty.
2012	2 grams	250 tubes
2015	5 grams	100 tubes
SL5	5 oz./142 grams	12 tubes

Type DX — Duct seal

- Seals around junction boxes, flashings, service mast entries, service cable entries and countless other applications
- Easy to use, forms around irregular surfaces and configurations
- Highly resistant to cracking, drying and shrinking
- Cuts and trims easily
- Can be painted immediately after application
- Grey colour
- No unpleasant odor
- -6.7 °C to 100 °C (20 °F to 212 °F) workable temperature range
- -40 °C to 121 °C (-40 °F to 250 °F) service temperature range
- Contains no asbestos

Cat. no.	Description
DX-1	1 lb Slug
DX-5	(5) 1 lb Slugs
DX-5S	5 lb Slug

Type WW — Wire bristle brush

- Removes oxides from conductor surfaces
- Easy-grip handle with guard to prevent rubber-glove puncture
- Replaceable long-life brushes can be rotated
- Handle and guard coated with durable, nonconductive plastic for safety

Cat. No.	Description	Pkg. qty.
WWB1	Complete brush with handle	1
WRB1	Brush replacement	1

C

Blackburn®/Homac® - Compression connectors

C

Blackburn/Homac -
Compression connectors

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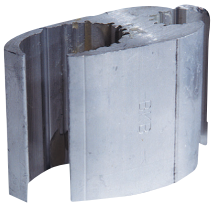
Compression H-tap connectors

Type WR – Wide range aluminum tap connectors



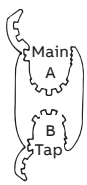
"O" and "D" die seven connector program

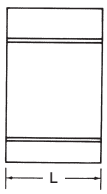
- For combinations of aluminum-aluminum and aluminum-copper conductors
- Pass the requirements of ANSI C119.4
- Standard compression tools and dies install all sizes
- Seven Connector Program provides superior connector performance, lower connection costs and simplified installation procedures
- Fold-in tabs provide positive tab interlock as tool closes
- Field-proven ribbed design provides unparalleled connector/conductor contact, without distorting the conductor's shape
- Made of 1350 aluminum alloy
- Pre-filled with an oxide inhibitor which is held captive in the rib/connection area
- For copper-to-copper combinations, use CF type shown on page 11

Type WR – Wide range aluminum tap connectors

		Conductor range (AWG or kcmil)															Installation information		
		Standard conductor						Compact conductor				Diameter (in.)						No. indents	
		Main			Tap			Main		Tap		Main		Tap					
Cat. no.	Connector no.	ACSR	Str.	Sol.	ACSR	Str.	Sol.	ACSR	Str.	ACSR	Str.	Max.	Min.	Max.	Min.	Connector length (in.)	Connector die	Mech. tool	Hyd. tool
WR159	1	2 3 4 6	1 2 3 4 6	2 3 4 6	2 3 4 6	1 2 3 4 6	2 3 4 6	2 3 4 6	1 2 3 4 6	2 3 4 6	1 2 3 4 6	0.332	0.162	0.332	0.162	1 7/16	0	4	2
WR189	2	1/0 1 2 3	2/0 1/0 1 2	3/0 2/0 1/0 1	2 3 4 6	1 2 3 4 6	1/0 1 2 3 4 6	2/0 1/0 1 2	2/0 1/0 1 2	1 2 3 4 6	1 2 3 4 6	0.419	0.266	0.332	0.162	1 11/16	0	5	2
WR289	3	2/0 1/0	3/0 2/0	4/0 3/0	2 3 4 6	1 2 3 4 6	1/0 1 2 3 4 6	3/0 2/0	30	1 2 3 4 6	1 2 3 4 6	0.470	0.398	0.332	0.162	1 13/16	D	5	2
WR279	4	2/0 1/0	3/0 2/0 1/0	4/0 3/0 2/0	2/0 1/0 1	3/0 2/0 1/0	3/0 2/0	3/0 2/0 1/0	3/0 2/0 1/0	3/0 2/0 1/0	3/0 2/0 1/0	0.470	0.336	0.470	0.36	1 13/16	D	5	2
WR379	5	4/0 3/0	4/0	–	2 3 4 6	1 2 3 4 6	1/0 1 2 3 4 6	266 18/1 250 4/0	266 250 4/0	1 2 3 4 6	1 2 3 4 6	0.563	0.475	0.332	0.162	1 13/16	D	5	2
WR399	6	4/0 3/0	4/0 3/0	–	2/0 1/0 1	2/0 1/0	3/0 2/0	266 18/1 4/0 3/0	266 250 4/0	2/0 1/0	3/0 2/0 1/0	0.563	0.461	0.447	0.338	2 3/16	D	6	2
WR419	7	4/0 3/0	4/0 3/0	–	4/0 3/0	4/0 3/0	–	266 18/1 4/0 3/0	266 250 4/0	266- 18/1 4/0 3/0	266 250 4/0	0.563	0.461	0.563	0.461	2 7/16	D	7	3

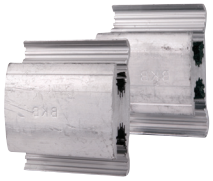
Diagrams





Compression H-tap connectors

Type WR – Wide range aluminum tap connectors



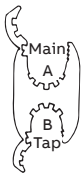
Supplemental "O" and "D" die seven connector program

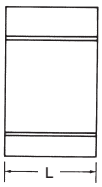
- For combinations of aluminum-aluminum and aluminum-copper conductors
- Pass the requirements of ANSI C119.4
- Standard compression tools and dies install all sizes
- Seven Connector Program provides superior connector performance, lower connection costs and simplified installation procedures
- Fold-in tabs provide positive tab interlock as tool closes
- Field-proven ribbed design provides unparalleled connector/conductor contact, without distorting the conductor's shape
- Made of 1350 aluminum alloy
- Pre-filled with an oxide inhibitor which is held captive in the rib/connection area
- For copper-to-copper combinations, use CF type shown on page 11

Type WR – Wide range aluminum tap connectors

	Conductor range (AWG or kcmil)															Installation information		
	Standard conductor						Compact conductor				Diameter (in.)						No. indents	
			Main			Tap		Main		Tap		Main		Tap				
Cat. no.	ACSR	Str.	Sol.	ACSR	Str.	Sol.	ACSR	Str.	ACSR	Str.	Max.	Min.	Max.	Min.	Connector length (in.)	Connector die	Mech. tool	Hyd. tool
WR149	4 6	3 4 6	2 3 4 6	4 6	3 4 6	2 3 4 6	4 6	2 3 4 6	3 4 6	2 3 4 6	0.266	0.162	0.266	0.162	1½	0	5	2
WR179	1/0 1 2 3	1/0 1 2	1	4 6	3 4 6	2 3 4 6	1/0 1 2	2/0 1/0 1 2	4 6	2 3 4 6	0.398	0.266	0.266	0.162	1¾	0	5	2
WR199	1/0 1 2 3	1/0 1 2	1	2 3 4	1 2 3 4	1 2		2/0 1/0 1 2	1 2 3 4	1 2	0.398	0.066	0.332	0.232	1¾	0	5	2
WR1010	1/0 1 2 3 4	2/0 1/0 1 2 3 4	1 2	1/0 1 2 3 4	2/0 1/0 1 2 3 4	1 2	2/0 1/0 1 2 3 4	2/0 1/0 1 2	2/0 1/0 1 2 3 4	2/0 1/0 1 2	0.419	0.232	0.419	0.232	1¾	0	4	2
WR259	1/0 1	2/0 1/0	–	1/0 1	2/0 1/0	–	2/0 1/0	2/0 1/0	2/0 1/0	2/0 1/0	0.419	0.326	0.412	0.292	1⅞	D	5	2
WR299	2/0 1/0	3/0 2/0	–	4 6	3 4 6	2 3 4 6	3/0 2/0	3/0	4 6	2 3 4 6	0.470	0.398	0.266	0.162	1½	D	4	2
WR219	1/0 1	1/0 1	–	1/0 1 2	1/0 1	–	1/0	2/0 1/0	1/0	2/0 1/0	0.398	0.324	0.398	0.316	1⅞	D	5	2
WR239	2/0 1/0	2/0 1/0	–	2 3 4	1 2 3	1 2	2/0 1/0	4/0 3/0	1 2 3 4	1 2	0.447	0.365	0.332	0.236	1⅞	D	5	2
WR229	2/0	3/0 2/0	–	1/0 1 2	1/0 1	–	3/0 2/0	3/0	1/0 1	2/0 1/0	0.470	0.410	0.398	0.316	1⅞	D	5	2
WR269	2/0	2/0	–	2/0 1/0	2/0 1/0	–	2/0	3/0	2/0 1/0	3/0 2/0 1/0	0.447	0.410	0.447	0.336	1⅞	D	5	2

Diagrams

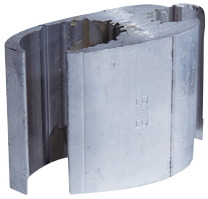




Products on this page are not CSA applicable.

Compression H-tap connectors

Type WR – Wide range aluminum tap connectors



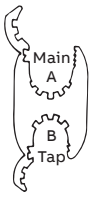
Supplemental "O" and "D" die seven connector program

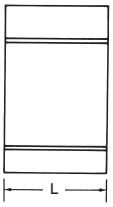
- For combinations of aluminum-aluminum and aluminum-copper conductors
- Pass the requirements of ANSI C119.4
- Standard compression tools and dies install all sizes
- Seven Connector Program provides superior connector performance, lower connection costs and simplified installation procedures
- Fold-in tabs provide positive tab interlock as tool closes
- Field-proven ribbed design provides unparalleled connector/conductor contact, without distorting the conductor's shape
- Made of 1350 aluminum alloy
- Pre-filled with an oxide inhibitor which is held captive in the rib/connection area
- For copper-to-copper combinations, use CF type shown on page 11

Type WR – Wide range aluminum tap connectors

	Conductor range (AWG or kcmil)															Installation information		
	Standard conductor*						Compact conductor				Diameter (in.)				Connector length (in.)		No. indents	
			Main			Tap		Main		Tap		Main		Tap				
Cat. no.	ACSR	Str.	Sol.	ACSR	Str.	Sol.	ACSR	Str.	ACSR	Str.	Max.	Min.	Max.	Min.		Connector die	Mech. tool	Hyd. tool
WR319	3/0	3/0	–	2 3 4	1 2 3 4	1 2	3/0	4/0	1 2 3 4	1 2	0.502	0.461	0.332	0.229	1⅞	D	5	2
WR339	3/0	3/0	–	2/0 1/0 1	2/0 1/0	–	3/0	4/0	2/0 1/0	3/0 2/0 1/0	0.502	0.461	0.447	0.336	2⅛	D	6	2
WR359	4/0 3/0	4/0 3/0	–	4 6	3 4 6	2 3 4 6	266 4/0 3/0	266 250 4/0	1/0 1 2	1/0 1 2	0.563	0.461	0.266	0.162	1⅞	D	4	2
WR369	4/0 3/0	4/0 3/0	–	1 2 3 4	1/0 1 2 3	1	266 4/0 3/0	266 250 4/0	1/0 1 2	1/0 1 2	0.563	0.461	0.374	0.266	1⅞	D	4	2
WR369**	4/0 3/0 2/0	4/0 3/0	–	1/0 1 2 3 4	1/0 1 2 3 4	1/0 1 2	266 4/0 3/0	266 250 4/0 3/0	1/0 1 2 3 4	1/0 1 2	0.63	0.423	0.3763	0.232	1⅞	D	5	2
WR389	4/0 3/0	4/0 3/0	–	2/0 1/0	3/0 2/0	–	266 4/0 3/0	266 250 4/0	3/0 2/0	3/0 2/0	0.563	0.461	0.470	0.376	2 3/16	D	6	2
WR389**	4/0 3/0 2/0	4/0 3/0	–	2/0 1/0 1	3/0 2/0 1/0	–	266 4/0 3/0	266 250 4/0	3/0 2/0 1/0	3/0 2/0 1/0	0.563	0.423	0.470	0.336	2 3/16	D	6	2

Diagrams





*Will accept conductors of these same wire sizes with a 3% reduction of diameter (compressed).
**This range possible only when crimped with hydraulic tool TBM14M or JB12B.
Products on this page are not CSA applicable.

Compression H-tap connectors

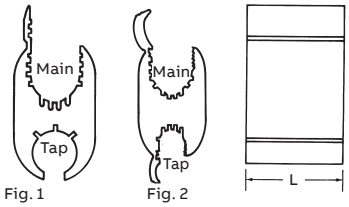
Type WR – Wide range aluminum tap connectors “N” die for hydraulic tools, 12-ton and greater

- For combinations of aluminum-aluminum and aluminum-copper conductors
- Pass the requirements of ANSI C119.4
- Standard compression tools and dies install all sizes
- Seven Connector Program provides superior connector performance, lower connection costs and simplified installation procedures
- Fold-in tabs provide positive tab interlock as tool closes
- Field-proven ribbed design provides unparalleled connector/conductor contact, without distorting the conductor’s shape
- Made of 1350 aluminum alloy
- Pre-filled with an oxide inhibitor which is held captive in the rib/connection area
- For copper-to-copper combinations, use CF type shown on page 11

Type WR – Wide range aluminum tap connectors “N” die for hydraulic tools, 12-ton and greater

	Conductor range (AWG or kcmil)																	Installation information	
	Standard conductor*						Compact conductor					Diameter (in.)							
	Main			Tap			Main		Tap			Main		Tap			Con-nector length (in.)	For use with tool	No. of in-dents
Cat. No.	ACSR		Str.	ACSR	Str.	Sol.	ACSR	Str.	ACSR		Str.	Max.	Min.	Max.	Min.				
WR715	397[18]/1 336 266	400 397 350 336	300 266 250	2/0 1/0 1 2 3 4 6	2/0 1/0 1 2 3 4 6	3/0 3 2/0 4 1/0 6 1 2	477 397 336	500 477 394 350	2/0 1/0 1 2 3 4 6	3/0 2/0 1/0 1 2	3 4 6	0.753	0.520	0.447	0.162		2	TBM12, JB12B et Y-35	2
WR775	397[18]/1 336 266	400 397 350 336 30	0 266 250 4/0	397[18]/1 336 266 4/0	400 397 350 336	300 266 250 4/0	–	477 397 336 266	500 400 397 350	336 300 266 250	477 397 336 266	500 400 397 336	300 266 250	0.743	0.520	0.743	0.520	3	TBM12, JB12B et Y-35	3
WR815	477[18]/1 397 336 266 4/0	556 500 400 397	350 336 300 266 250	2/0 1/0 1 2 3 4 6	400 397 350 336	300 266 250 4/0	3/0 1 2/0 2 1/0 3 4 6	556 477 397 350 336 266	556 477 397 350	336 266 250	2/0 1/0 1 2 3 4 6	3/0 2/0 1/0 1 2	3 4 6	0.858	0.520	0.447	0.162	2	TBM12, JB12B et Y-35	2
WR835	477[18]/1 397 336 266 4/0	556 500 400 397	350 336 300 266 250	4/0 3/0 2/0 1/0	4/0 3/0 2/0 1/0	4/0 3/0 2/0	556 477 397 350 336 266	556 500 400 397 350	336 300 266 250	266 4/0 3/0 2/0	250 4/0 3/0	3 4 6	0.858	0.520	0.563	0.368	2	TBM12, JB12B et Y-35	2
WR875**	477[18]/1 397 336 266 4/0	556 500 400 397	350 336 300 266 250	477[18]/1 266	350 336 300 266 250	397 366	556 477 397 350 336 266	556 500 400 397 350	336 300 266 250	397 336 266	400 397 350 336	300 266 250	0.858	0.520	0.684	0.520	3	TBM12, JB12B et Y-35	3
WR885	477[18]/1 397 336 266 4/0	500 400 397 350 336	300 266 250 4/0	477[18]/1 397 336 266 4/0	500 400 397 350	300 266 250 4/0	397 366	556 477 397 350 336 266	556 500 400 397 350	336 300 266 250	556 477 394 336 266	556 477 397 350 336	300 266 250	0.814	0.520	0.814	0.520	3	TBM12, JB12B et Y-35	3

Diagrams



* Will accept conductors of these same wire sizes with a 3% reduction of diameter (compressed). ** Not reversible (Fig. 2).
Products on this page are not CSA applicable.

Compression H-tap connectors

Type WR – Wide range aluminum tap connectors “N” die for hydraulic tools, 10-ton and greater

- For combinations of aluminum-aluminum and aluminum-copper conductors
- Pass the requirements of ANSI C119.4
- Standard compression tools and dies install all sizes
- Seven Connector Program provides superior connector performance, lower connection costs and simplified installation procedures
- Fold-in tabs provide positive tab interlock as tool closes
- Field-proven ribbed design provides unparalleled connector/conductor contact, without distorting the conductor’s shape
- Made of 1350 aluminum alloy
- Pre-filled with an oxide inhibitor which is held captive in the rib/connection area
- For copper-to-copper combinations, use CF type shown on page 11

Type WR – Wide range aluminum tap connectors “N” die for hydraulic tools, 10-ton and greater

	Conductor range (AWG or kcmil)																Installation information	
	Standard conductor*						Compact conductor					Diameter (in.)				Con-nector length (in.)		
	Main			Tap			Main			Tap		Main		Tap				
Cat. no.	ACSR		Str.	ACSR	Str.	Sol.	ACSR		Str.	ACSR	Str.	Max.	Min.	Max.	Min.		For use with tool	No. of in-dents
WR699	397[18]/1 336 266	400 397 350 336	300 266 250	4 6	3 4 6	2 3 4 6	477 397 350 336	477 397 350	336 300	4 6	2 3 4 6	0.743	0.570	0.266	0.162	2	TBM12, JB12B and 13642M	2
WR719	397[18]/1 336 266	400 397 350 336	300 266 250	2/0 1/0 1 2 3	2/0 1/0 1 2	3/0 2/0 1/0 1	477 397 350 336	477 397 350	336 300	2/0 1/0 1 2	3/0 2/0 1/0 1 2	0.743	0.570	0.447	0.289	2	TBM12, JB12B and 13642M	2
WR739	397[18]/1 336 266	400 397 350 336	300 266 250	4/0 3/0 2/0 1/0	4/0 3/0 2/0	4/0	477 397 350 336	477 397 350	336 300	266 4/0 3/0	266 250 4/0	0.743	0.570	0.563	0.398	2	TBM12, JB12B and 13642M	2
WR779	397[18]/1 336 266	400 397 350 336	300 266 250	397[18]/1 336 266	400 397 350	336 266 250	477 397	477 397 350 336	336 300	477 397 336	477 397 336	0.743	0.570	0.743	0.570	3	TBM12, JB12B and 13642M	3
WR799	477[18]/1 266		500 250	4 6	3 4 6	2 3 4 6	477[18]/1 250		500 250	3 4 6	2 3 4 6	0.814	0.575	0.270	0.160	2	TBM12, JB12B and 13642M	2
WR819	477[18]/1 397 336	556 500 477 450	400 397 350 336	2/0 1/0 1 2 3	2/0 1/0 1 2	3/0 2/0 1/0 1	556 477 397		556 477 397	2/0 1/0 1 2	3/0 2/0 1/0 1 2	0.858	0.659	0.477	0.289	2	TBM12, JB12B and 13642M	2
WR839	477[18]/1 397 336	556 500 477 450	400 397 350 336	4/0 3/0 2/0	4/0 3/0	4/0	556 477 397		556 477 397	266 4/0 3/0	266 250 4/0	0.858	0.659	0.563	0.477	2	TBM12, JB12B and 13642M	2
WR879**	477[18]/1 397 336	556 500 477 450	400 397 350 336	336[18]/1 266	350 336 300 266	397	556 477 397		556 477 397	397 336	397 350 336	0.858	0.659	0.684	0.593	2	TBM12, JB12B and 13642M	3
WR889	477[18]/1 397 336		500 400 397 350 336	477[18]/1 397 336	500 400 397 350 336	–	556 477 397 336		556 477 397 350	556 477 397 336	556 477 397 350	0.814	0.666	0.814	0.666	2	TBM12, JB12B and 13642M	3

Diagrams

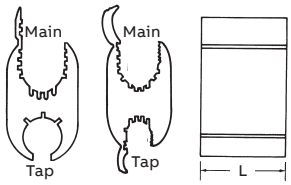
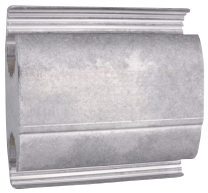


Fig. 1 Fig. 2

*Will accept conductors of these same wire sizes with a 3 % reduction of diameter (compressed). **Not reversible (Fig. 2).
Products on this page are not CSA applicable.

Compression H-tap connectors

Type WR – Wide range aluminum tap connectors “R” die seven connector program

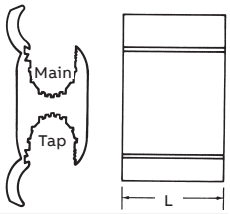


- For combinations of aluminum-aluminum and aluminum-copper conductors
- Pass the requirements of ANSI C119.4
- Standard compression tools and dies install all sizes
- Seven Connector Program provides superior connector performance, lower connection costs and simplified installation procedures
- Fold-in tabs provide positive tab interlock as tool closes
- Field-proven ribbed design provides unparalleled connector/conductor contact, without distorting the conductor’s shape
- Made of 1350 aluminum alloy
- Pre-filled with an oxide inhibitor which is held captive in the rib/connection area
- For copper-to-copper combinations, use CF type shown on page 11

Type WR – Wide range aluminum tap connectors “R” die seven connector program

	Calibres de conducteurs (AWG ou kcmil)															Installation information		
	Standard conductor						Compact conductor				Diameter (in.)				Connec-tor length (in.)			
	Main			Tap			Main		Tap		Main		Tap					
Cat. no.	ACSR		Str.	ACSR		Str.	ACSR	Str.	ACSR	Str.	Max.	Min.	Max.	Min.		For use with tool	Con-nector die	No. of indents
WR909	556 18/1	600	450	336 1/61	350	4/0	636	700	397½	397	0.893	0.666	0.684	0.398	4¾	TBM15I	R	4
	477	556	400	266	336	3/0	556	636	336	350						(15620)		
	397	550	397	4/0	266	2/0	477	556	266	336								
	336	500	350	3/0	250		397	500	4/0	300								
	300	400	336	2/0				477	3/0	266								
		477		1/0				450	2/0	250								
										4/0								
										3/0								
WR929	556 18/1	600	450	556 18/1	600	450	636	700	636	700	0.893	0.666	0.893	0.666	4¾	TBM15I	R	4
	477	556	400	477	556	400	556	636	556	636						(15620)		
	397	550	397	397	550	397	477	556	477	556								
	336	500	350	336	500	350	397	500	397	477								
	300	400	336	300	477	336		477		450								
		477						450										
WR949	795 26/7	900	715	336 18/1		350	954	1,000	397 18/1	397	1.108	0.883	0.684	0.398	4¾	TBM15I	R	4
	715	874	700	266		336	874	954	336	350						(15620)		
	666	800	636	4/0		266	795	874	266	336								
	636	795	600	3/0		250		795	4/0	300								
	606	750		2/0		4/0		750	3/0	266								
	556			1/0		3/0			2/0	250								
	477 30/7					2/0				4/0								
										3/0								
WR969	795 26/7	900	715	556 18/1	600	450	954	1,000	636	700	1.108	0.883	0.893	0.666	4¾	TBM15I	R	4
	715	874	700	477	556	400	874	954	556	363						(15620)		
	666	800	636	397	550	397	795	874	477	556								
	636	795	600	336	500	350		795	397	477								
	606	750		300	477	336		750		450								
	556																	
	477 30/7																	
WR989	795 26/7	900	715	795 26/7	900	715	954	1,000	954	1,000	1.108	0.883	1.108	0.883	4¾	TBM15I	R	4
	715	874	700	715	874	700	874	954	874	954						(15620)		
	666	800	636	666	800	636	795	874	795	874								
	636	795	600	636	795	600		795		795								
	606	750		605	750			750		750								
	556			556														
	477 30/7			477 30/7														
WR999	954 45/7	1,033	1,033	954 45/7		1,033	954	1,000	954	1,000	1.172	0.997	1.172	0.997	4¾	TBM15I	R	4
	900	1,000	1,000	900		1,000	900	900	900	900						(15620)		
	874	900	900	874		900			874									
	795	800	800	7985		800												
	715	795	795	715		795												
	666	750	750	666		750												

Diagrams



Les produits listés sur cette page ne sont pas certifiés CSA.

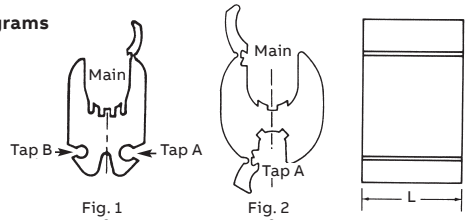
Compression H-tap connectors

Type WR – Street lighting compression connectors

Type WR – Street lighting compression connectors

		Conductor range (AWG or kcmil)														Installation information		
		Standard conductor							Diameter (in.)								No. of indents	
				Main	Tap A		Tap B		Main		Tap A		Tap B					
Cat. no.	Figure no.	ACSR	Str.	Sol.	Str.	Sol.	Str.	Sol.	Max.	Min.	Max.	Min.	Max.	Min.	Connector length (in.)	For use with tool	Mech. tool	Hyd. tool
WR9**	2	3	2	1	8	8	–	–	0.292	0.184	0.146	0.064	–	–	13/16	5/8	3	–
		4	3	2	10	10										BG		
		6	4	3	12	12												
			6	4	14	14												
WR139	1	1/0	2/0	1	8	6	12	12	0.419	0.250	0.162	0.100	0.092	0.064	1½	0	4	2
		1	1/0	2	10	8	14	14										
		2	1			10												
		3	2															
		4	3															
WR502	1	4/0	4/0	–	8	6	12	12	0.563	0.461	0.162	0.100	0.092	0.064	1½	D	4	–
		3/0	3/0		10	8	14	14										
						10												
WR502*	1	4/0	4/0	–	8	6	12	12	0.563	0.365	0.162	0.100	0.092	0.064	1½	D	–	2
		3/0	3/0		10	8	14	14										
		2/0	2/0			10												
		1/0	1/0															

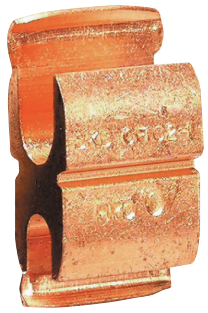
Diagrams



Will accept conductors of these same wire sizes with a 3% reduction of diameter (compressed).
* This range possible only when crimped with hydraulic tool TBM14M or JB12B.
** CSA certified.
Products on this page are not CSA applicable.

Compression H-tap connectors

Type CF – Copper compression tap connectors



- For tapping copper conductors to unbroken main copper conductors
- Extruded pure electrolytic copper
- Full length tab for easy installation
- Efficient design for lower crimping force
- Standard compression tools and dies
- Single and double tab designs

Type CF – Copper compression tap connectors

		Conductor range (AWG or kcmil)								Dimensional information			Installation information						
		Standard conductor*				Diameter (in.)*							Mechanical tools***			Hydraulic tools***			
		Main A		Tap B		Main A		Tap B											
Cat. no.	Figure no.	ACSR	Str.	Sol.	Str.	Max.	Min.	Max.	Min.	H (Min.)	H 1	Connector length (in.)	OD 58	Type 0	MD Series	JB12B	H Series	Y-35	TBM15/ Y45/Y46
CF44-1	1	4 6	6	4 6 8	6	0.204	0.162	0.204	0.128	0.971	0.729	13/16	B, T 5/8	B, T 5/8	W-KB W-BG	BKT	B	BKT U-BG	BKT U-BG
CFS44-1	2	4 6	6	4 6 8	8	0.204	0.162	0.204	0.128	0.864	0.743	13/16	B, T 5/8	B, T 5/8	W-KB W-BG	BKT	BKT	BKT U-BG	BKT U-BG
CF22-1	1	2 4	4	2 4	4	0.258	0.204	0.258	0.204	1.162	0.813	13/16	K	K	W-KK	–	–	–	BKT
CFS22-1	2	2 4	4	2 6	6	0.258	0.204	0.258	0.162	1.017	0.842	13/16	K	K	W-KK	HBKC	BKT	BKT	BKT
CF102-1	1	–	1/0 1 2	2 4 6	4	0.373	0.292	0.258	0.162	1.540	1.100	27/32	–	–	–	0	0	0	0
CF1010-1	1	–	1/0 1 2	–	1/0 1 2	0.373	0.292	0.373	0.292	1.610	1.050	27/32	–	–	–	0	0	0	0
CF202-1	1	–	2/0 1/0	–	2/0 1/0 1 2	0.419	0.368	0.259	0.204	1.670	1.269	7/8	–	–	–	K-C	C	K-C	BK-C
CF2020-1	1	–	2/0 1/0	–	2/0 1/0 1 2	0.419	0.368	0.414	0.292	1.740	1.220	7/8	–	–	–	K-C	C	K-C	BK-C
CF402-1	1	–	4/0 3/0 2/0	2 4	4	0.528	0.414	0.259	0.204	1.983	1.423	1 1/8	–	–	–	D**	D**	D**	D**
CF4010-1	1	–	4/0 3/0 2/0	–	1/0 1 2	0.528	0.414	0.373	0.292	1.992	1.423	1 1/8	–	–	–	D**	D**	D**	D**
CF4040-1	1	–	4/0 3/0 2/0	–	4/0 3/0 2/0	0.528	0.414	0.528	0.414	2.252	1.483	1 1/8	–	–	–	D**	D**	D**	D**

Diagrams

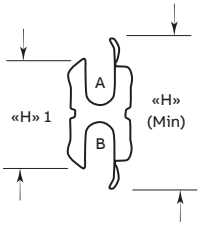


Fig. 1

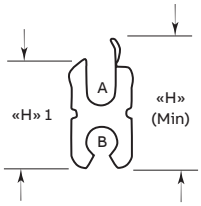


Fig. 2

*Decimal dimensions are for conventional conductor, not Copperweld or Alumoweld.
**Blackburn "D" dies.
***Three indents with mechanical tools and one indent with hydraulic tools. 15-Ton/head use appropriate die adapters.

Distribution compression connectors

Type AL – Aluminum compression terminal lugs

- For aluminum and copper conductor
- NEMA standard mounting holes
- Prefilled with oxide inhibitor
- Complete die and crimp information clearly indented on each lug
- Install with standard tools and dies
- Use ½" mounting hardware for all sizes
- Available tin plated (add suffix P to catalogue number)
- Extended barrel for additional crimping area or weather-seal for outdoor terminators

Type AL – Aluminum compression terminal lugs

Cat. no.		Conductor range (AWG or kcmil)			Diameter (in.)		Installation dies		Dimensions (in.)		
2 hole (fig. 1)	1 hole (fig. 2)	ACSR	AWG (stranded)	Compact	Min.	Max.	Mech. tool	Hyd. tool	W	L	T (pad thickness)
AL4	–	2	1–2	–	0.316	0.332	840 K840 845 TX	840 B49EA EEI, 11A K840 249 76 CSA 24	1¼	5⅞	5/16
–	AL5	1/0	1/0	2/0	0.368	0.398			1¼	4⅞	13/32
AL6	–	1/0	1/0	2/0	0.368	0.398			1¼	6⅝	13/32
–	AL7	2/0	2/0	3/0	0.414	0.447			1¼	4⅞	11/32
AL8	–	2/0	2/0	3/0	0.414	0.447			1¼	6⅝	11/32
–	AL9	3/0	3/0	4/0	0.464	0.502			1¼	4⅞	5/16
AL10	–	3/0	3/0	4/0	0.464	0.502			1¼	6⅝	5/16
–	AL11	4/0	4/0	–	0.522	0.563			1¼	4⅞	9/32
AL12	–	4/0	4/0	–	0.522	0.563			1¼	6⅝	9/32
AL16		266 26/7, 6/7, 18/1	250–300	–	0.574	0.679	–	B80EA EEI 13A 655 1⅛ 96H CSA 26	1½	7⅝	7/16
AL18		266 26/7, 6/7, 18/1, 336 18/1	300–350	450 kcmil	0.609	0.772	–		1 9/16	7⅝	13/32
AL20		336 30/7, 26/7, 18/1, 397 18/1	336–400	500 kcmil	0.666	0.813	–		1 9/16	7⅝	⅜
AL24		397 30/7, 26/7, 18/1, 477 18/1	450–500	600 kcmil	0.770	0.893	–	106H CSA 28 B20AH EEI 14A 318 1 5/16	1 5/16	8⅛	½
AL28		477 30/7, 26/7, 18/1, 556 18/1	550 and 556	–	0.846	0.964	–		1 5/16	8⅛	½
AL32		556 26/7, 24/7, 636 18/1	600 and 636	750 kcmil	0.891	0.990	–		1 5/16	8⅛	½
AL44		636 26/7, 715 54/7, 666 24/7	750–800	–	0.990	1.031	–				½
AL60*		922 54/7, 954 45/7	1,000–1,033	–	1.151	1.165	–				½

Diagrams

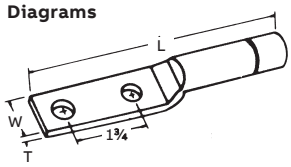


Fig. 1

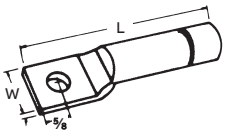


Fig. 2

* For aluminum conductor only

Distribution compression connectors

Type ALS – Aluminum compression terminal lugs

- For aluminum and copper conductor
- NEMA standard mounting holes
- Prefilled with oxide inhibitor
- Complete die and crimp information clearly indented on each lug
- Install with standard tools and dies
- Use ½" mounting hardware for all sizes
- Available tin plated (add suffix P to catalogue number)

Type ALS – Aluminum compression terminal lugs

Cat. no.				Conductor range (AWG or kcmil)			Installation dies		Dimensions (in.)		
					Diameter (in.)						
2 hole (fig. 1)	1 hole (fig. 2)	ACSR	AWG (stranded)	Compact	Min.	Max.	Mech. tool	Hyd. tool	W	L	T (pad thickness)
–	AL581	4	4	–	0.277	0.213	5/8	B58CS	29/32	2 37/64	1/4
AL582	–	4	4	–	0.277	0.213	Peach	U-BG	29/32	4 37/64	1/4
–	AL583	2	2	–	0.344	0.290	BG		29/32	2 37/64	1/4
AL584	–	2	2	–	0.344	0.290	WBG		29/32	4 37/64	1/4
–	AL585	1/0	1/0	2/0	0.422	0.381	G		29/32	2 37/64	1/4
AL586	–	1/0	1/0	2/0	0.422	0.381	TU		29/32	4 37/64	1/4
–	ALS1	4	4, 2 Solid	4	0.258	0.232	840	840	29/32	3 1/4	1/4
ALS2	–	4	4, 2 Solid	4	0.258	0.232	K840	B49EA	1 1/4	5 3/4	1/4
–	ALS3	2	1–2	1–2	0.332	0.316	845	EEI 11A	29/32	3 1/4	1/4
ALS4	–	2	1–2	1–2	0.332	0.316	TX	K840	1 1/4	5 3/4	1/4
–	ALS5	1/0	1/0	2/0	0.398	0.368		249	29/32	3 1/4	1/4
ALS6	–	1/0	1/0	2/0	0.398	0.368		76	1 1/4	5 3/4	1/4
–	ALS7	2/0	2/0	3/0	0.447	0.414		CSA24	29/32	3 1/4	1/4
ALS8	–	2/0	2/0	3/0	0.447	0.414			1 1/4	5 3/4	1/4
–	ALS9	3/0	3/0	4/0	0.502	0.464			29/32	3 1/4	1/4
ALS10	–	3/0	3/0	4/0	0.502	0.464			1 1/4	5 3/4	1/4
–	ALS11	4/0	4/0	–	0.563	0.522			29/32	3 1/4	1/4
ALS12	–	4/0	4/0	–	0.563	0.522			1 1/4	5 3/4	1/4
–	ALS13	3/0, 4/0	3/0, 4/0, 250 kcmil	250, 300 kcmil	0.575	0.464	–	B80EA	1 1/4	4 5/8	3/8
ALS14	–	3/0, 4/0	3/0, 4/0, 250 kcmil	250, 300 kcmil	0.575	0.464		EEI 13A	1 1/4	6	3/8
–	ALS15	266 26/7, 6/7, 18/1 kcmil	250–300	350	0.633	0.574		655	1 1/4	4 5/8	3/8
ALS16	–	266 26/7, 6/7, 18/1 kcmil	250–300	350	0.633	0.574		1 1/8	1 1/4	6	3/8
–	ALS17	266 26/7, 6/7, 18/1, 336 18/1	300–350	350–400	0.684	0.609		321	1 1/4	4 5/8	3/8
ALS18	–	266 26/7, 6/7, 18/1, 336 18/1	300–350	350–400	0.684	0.609		96H	1 1/4	6	3/8
–	ALS19	336 30/7, 26/7, 18/1, 397 18/1	336–400	450–500	0.743	0.666		CSA 26	1 1/4	4 5/8	3/8
ALS20	–	336 30/7, 26/7, 18/1, 397 18/1	336–400	450–500	0.743	0.666			1 1/4	6	3/8
–	ALS23	397 30/7, 26/7, 18/1, 477 18/1	450–500	550–600	0.814	0.743	–	B20AH	1 3/8	5 9/16	9/16
ALS24	–	397 30/7, 26/7, 18/1, 477 18/1	450–500	550–600	0.814	0.743		EEI 14A	1 3/8	6 7/8	9/16
ALS28	–	477 30/7, 26/7, 24/7, 556 18/1	550–556	650–700	0.883	0.846		318	1 3/8	6 7/8	9/16
ALS32	–	556 26/7, 26/7, 636 18/1	600–636	750	0.940	0.891		15/16	1 3/8	6 7/8	5/8
ALS44	–	636 26/7, 715 54/7, 666 26/7, 54/7	750–800	900	1.031	0.990	–	CSA 28	1 5/8	7 1/4	5/8
ALS60*	–	900 54/7, 954 45/7	1,000–1,033	1033	1.172	1.151		106H	1 5/8	7 1/4	5/8
								1 1/2			
								6024			
								125H			
								CSA 30			

Diagrams

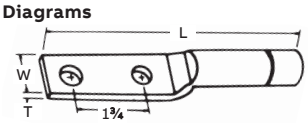


Fig. 1

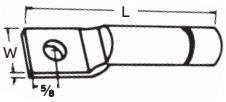


Fig. 2

* For aluminum conductor only

Color-coded compression connectors

Type C – Compression connectors covers

- Hinged polyethylene cover
- Installs easily, quickly – less expensive than taping
- Positive snap-locks fasten securely
- Drain ports prevent accumulation of corrosion-causing moisture
- Ultra-violet stabilized

Type C – Compression connectors covers

		Dimensions (in.)		
Cat. no.	**Capacity***	**Height**	**Length**	**Width**
C2BB	All ⅝ in. and O.D. Die taps, 2 in. long or less	1.10	4.00	1.05
C5C	All “O” Die taps, 1¾ in. long or less	1.60	3.75	1.25
C7C	All “D” Die taps, 2½ in. long or less	1.80	5.00	1.45
C9	All “N” and “D” Die taps, up to 2 in. long	2.75	4.25	2.00
C9L	All “N” and “D” Die taps, up to 5 in. long	2.75	7.25	2.00

* Before compression.

Color-coded compression connectors

Type CTL – Copper lugs, one-hole mount, short barrel

Copper compression connectors

- For use with copper conductors: AWG stranded, flexible cable, welding cable and portable cord
- Specially designed for industrial and building applications
- Made of high-conductivity seamless copper tubing
- Tin-plated for corrosion resistance
- Specially chamfered barrel for ease of installation
- Color-coded for matching die identification
- Can be used for medium voltage application up to 35 kV, provided proper insulation techniques are used
- CSA certified and UL listed for AWG conductors when installed with Blackburn, Burndy, ABB or Anderson tools, as specified by CSA
- Comply with Subpart 111.60-17 of Federal Register's Coast Guard Electrical Engineering Rules and Regulations

Short barrel connectors

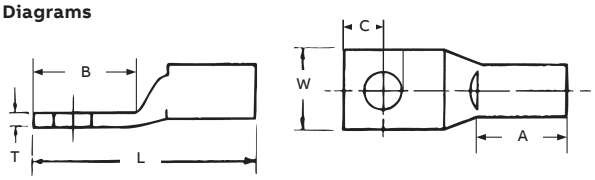
- Short barrel connectors designed for regular-duty applications
- Ideal for confined areas

Type CTL – Copper lugs, one-hole mount, short barrel

Cat. no.	Conductor size (Cu)	Stud size (in.)	Dimensions (in.) A	B	C	L	W	T	Color code
CTL8-10	8 str.	10	13/32	1/2	7/32	1 5/32	3/8	1/16	Red
CTL8-14	8 str.	1/4	13/32	19/32	1/4	1 3/16	7/16	1/16	
CTL8-516	8 str.	5/16	13/32	5/8	9/32	1 5/16	9/16	1/16	
CTL6-10	6 str.	10	7/16	17/32	7/32	1 7/32	7/16	1/16	Blue
CTL6-14	6 str.	1/4	7/16	17/32	7/32	1 7/32	7/16	1/16	
CTL6-516	6 str.	5/16	7/16	21/32	9/32	1 13/32	19/32	1/16	
CTL6-38	6 str.	3/8	7/16	21/32	9/32	1 13/32	19/32	1/16	
CTL4-10	4 str.	10	1/2	19/32	1/4	1 3/8	17/32	3/32	Gray
CTL4-14	4 str.	1/4	1/2	19/32	1/4	1 3/8	17/32	3/32	
CTL4-516	4 str.	5/16	1/2	21/32	5/16	1 13/32	19/32	1/16	
CTL4-38	4 str.	3/8	1/2	21/32	5/16	1 13/32	19/32	1/16	
CTL2-14	2 + 3 str.	1/4	19/32	21/32	1/4	1 1/2	9/16	3/32	Brown
CTL2-516	2 + 3 str.	5/16	19/32	7/8	3/8	1 23/32	9/16	3/32	
CTL2-38	2 + 3 str.	3/8	19/32	29/32	3/8	1 3/4	9/16	3/32	
CTL2-12	2 + 3 str.	1/2	19/32	1 1/16	1/2	1 29/32	3/4	1/16	
CTL114	1 str.	1/4	19/32	21/32	1/4	1 1/2	21/32	3/32	Green
CTL1516	1 str.	5/16	19/32	7/8	3/8	1 23/32	21/32	3/32	
CTL138	1 str.	3/8	19/32	29/32	3/32	1 3/4	21/32	3/32	
CTL112	1 str.	1/2	19/32	1 1/4	1/2	2 3/32	3/4	3/32	
CTL10-516	1/0 str.	5/16	11/16	7/8	3/8	1 13/16	3/4	1/8	Pink
CTL10-38	1/0 str.	3/8	11/16	29/32	3/8	1 7/8	3/4	1/8	
CTL10-12	1/0 str.	1/2	11/16	1 1/4	1/2	2 3/16	3/4	1/8	
CTL20-38	2/0 str.	3/8	13/16	29/32	3/8	2 1/32	13/16	1/8	Black
CTL20-12	2/0 str.	1/2	13/16	1 1/4	1/2	2 11/32	13/16	1/8	
CTL30-38	3/0 str.	3/8	13/16	29/32	3/8	2 1/32	29/32	1/8	Orange
CTL30-12	3/0 str.	1/2	13/16	1 1/4	1/2	2 11/32	29/32	1/8	

Cat. no.	Conductor size (Cu)	Stud size (in.)	Dimensions (in.) A	B	C	L	W	T	Color code
CTL40-38	4/0 str. or 3/0 weld	3/8	15/16	29/32	3/8	2 5/32	1 3/32	1/8	Purple
CTL40-12	4/0 str. or 3/0 weld	1/2	15/16	1 1/4	1/2	2 1/2	1 1/32	1/8	
CTL250-12	250 kcmil or 4/0 weld	1/2	1 1/32	1 1/4	1/2	2 19/32	1 1/8	1/8	Yellow
CTL300-12	300 kcmil	1/2	1 1/32	1 1/4	1/2	2 25/32	1 3/16	5/32	White
CTL350-12	350 kcmil	1/2	1 1/32	1 1/4	1/2	2 25/32	1 11/32	5/32	Red
CTL400-12	400 kcmil	1/2	1 1/32	1 1/4	1/2	3 3/16	1 13/32	5/32	Blue
CTL400-58	400 kcmil	5/8	1 1/32	1 9/16	5/8	3 1/2	1 13/32	5/32	
CTL500-12	500 kcmil	1/2	1 1/32	1 1/4	1/2	3 1/4	1 19/32	7/32	Brown
CTL500-58	500 kcmil	5/8	1 1/32	1 9/16	5/8	3 9/16	1 19/32	7/32	
CTL600-58	600 kcmil	5/8	1 9/16	1 9/16	5/8	3 23/32	1 3/4	7/32	Green
CTL750-58	750 kcmil	5/8	1 1/2	1 9/16	5/8	3 25/32	1 29/32	1/4	Black
CTL1000-58	1,000 kcmil	5/8	1 3/4	1 9/16	5/8	4 1/32	2 1/4	9/32	–

Diagrams



See the Color-Keyed tools, dies and kits catalogue for more tool and die information.

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Color-coded compression connectors

Type CTL – Copper lugs, two-hole mount, short barrel

Copper compression connectors

- For use with copper conductors: AWG stranded, flexible cable, welding cable and portable cord
- Specially designed for industrial and building applications
- Made of high-conductivity seamless copper tubing
- Tin-plated for corrosion resistance
- Specially chamfered barrel for ease of installation
- Color-coded for matching die identification
- Can be used for medium voltage application up to 35 kV, provided proper insulation techniques are used
- CSA certified and UL listed for AWG conductors when installed with Blackburn, Burndy, ABB or Anderson tools, as specified by CSA
- Comply with Subpart 111.60-17 of Federal Register's Coast Guard Electrical Engineering Rules and Regulations

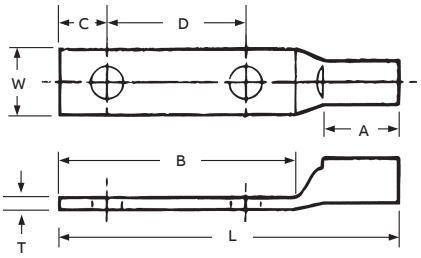
Short barrel connectors

- Short barrel connectors designed for regular-duty applications
- Ideal for confined areas

Type CTL – Copper lugs, two-hole mount, short barrel

Cat. no.	Conductor size (Cu)	Stud size (in.)	Dimensions (in.) A	B	C	D	L	W	T	Color code
CTL6-214	6 str.	1/4	1/2	1 1/4	1/4	5/8	1 31/32	13/32	1/16	Blue
CTL4-214	4 str.	1/4	1/2	1 1/4	1/4	5/8	2 1/32	1/2	3/32	Gray
CTL2-2516	2 + 3 str.	5/16	19/32	1 5/8	3/8	3/4	2 15/32	9/16	3/32	Brown
CTL1-2516	1 str.	5/16	19/32	1 3/4	3/8	7/8	2 19/32	21/32	3/32	Green
CTL10-2516	1/0 str.	5/16	11/16	1 3/4	3/8	7/8	2 11/16	3/4	1/8	Pink
CTL202	2/0 str.	1/2	13/16	2 13/16	1/2	1 3/4	3 13/16	13/16	1/8	Black
CTL302	3/0 str.	1/2	25/32	2 13/16	1/2	1 3/4	3 15/16	15/16	1/8	Orange
CTL402	4/0 str.	1/2	15/16	3	1/2	1 3/4	4 1/4	1 3/32	1/8	Purple
CTL2502	250 kcmil	1/2	1 1/32	3	1/2	1 3/4	4 11/32	1 1/8	5/32	Yellow
CTL3002	300 kcmil	1/2	1 1/32	3	1/2	1 3/4	4 17/32	1 3/16	5/32	White
CTL3502	350 kcmil	1/2	1 1/32	3	1/2	1 3/4	4 17/32	1 11/32	5/32	Red
CTL4002	400 kcmil	1/2	1 11/32	3	1/2	1 3/4	4 15/16	1 13/32	5/32	Blue
CTL5002	500 kcmil	1/2	1 3/8	3	1/2	1 3/4	5	1 17/32	7/32	Brown
CTL6002-38	600 kcmil	3/8	1 17/32	1 29/32	3/8	1 3/4	5 1/8	1 23/32	7/32	Green
CTL6002-12	600 kcmil	1/2	1 17/32	3	1/2	1 3/4	5 1/8	1 23/32	7/32	
CTL7502	750 kcmil	1/2	1 1/2	3	1/2	1 3/4	5 7/32	1 29/32	1/4	Black
CTL10002	1,000 kcmil	1/2	1 3/4	3	1/2	1 3/4	5 7/16	2 1/4	9/32	–

Diagrams



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Color-coded compression connectors

Type CTL – Copper lugs, one-hole mount, long barrel

Copper compression connectors

- For use with copper conductors: AWG stranded, flexible cable, welding cable and portable cord
- Specially designed for industrial and building applications
- Made of high-conductivity seamless copper tubing
- Tin-plated for corrosion resistance
- Specially chamfered barrel for ease of installation
- Color-coded for matching die identification
- Can be used for medium voltage application up to 35 kV, provided proper insulation techniques are used
- CSA certified and UL listed for AWG conductors when installed with Blackburn, Burndy, ABB or Anderson tools, as specified by CSA
- Comply with Subpart 111.60-17 of Federal Register's Coast Guard Electrical Engineering Rules and Regulations

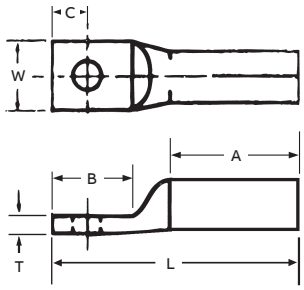
Long barrel connectors

- Ideal for industrial, oil rig, mining, welding and transportation electrical termination applications
- Heavy-duty design which permits additional crimp for added mechanical strength

Type CTL – Copper lugs, one-hole mount, long barrel

Cat. no.	Conductor size (Cu)	Flexible conductor size	Stranded	Stud size (in.)	Dimensions (in.) A	B	C	L	W	T	Color code
CTL8L-14	8 str.	1/4	37/24	1/4	25/32	5/8	1/4	1-5/8	13/32	1/16	Red
CTL6L-14	6 str.	1/4	61/24	1/4	25/32	5/8	1/4	1-5/8	13/32	1/16	Blue
CTL4L-14	4 str.	5/16	91/24	1/4	25/32	5/8	1/4	1 11/16	1/2	3/32	Gray
CTL2L-516	2 + 3 str.	5/16	125/24	5/16	7/8	7/8	3/8	2 1/32	9/16	3/32	Brown
CTL1L-516	1 str.	5/16	150/24	5/16	1 3/32	7/8	3/8	2 5/32	21/32	3/32	Green
CTL10L-516	1/0 str.	1/2	225/24	5/16	1 3/32	7/8	3/8	2 7/32	3/4	1/8	Pink
CTL20L-38	2/0 str.	1/2	275/24	3/8	1 3/32	29/32	3/8	2 1/4	13/16	1/8	Black
CTL30L-12	3/0 str.	1/2	325/24	1/2	1 1/8	1 1/4	1/2	2 11/16	29/32	1/8	Orange
CTL40L-12	4/0 str.	1/2	–	1/2	1 3/8	1 1/4	1/2	2 15/16	1 1/32	1/8	Purple
CTL250L-12	250 kcmil	1/2	450/24	1/2	1 19/32	1 1/4	1/2	3 1/8	1 1/8	1/8	Yellow
CTL300L-12	300 kcmil	1/2	550/24	1/2	1 25/32	1 1/4	1/2	3 17/32	1 3/16	1/8	White
CTL350L-12	350 kcmil	1/2	650/24	1/2	1 27/32	1 1/4	5/8	3 19/32	1 11/32	5/32	Red
CTL400L-58	400 kcmil	5/8	775/24	5/8	1 27/32	1 9/16	5/8	4 1/32	1 13/32	5/32	Blue
CTL500L-58	500 kcmil	5/8	925/24	5/8	2 11/32	1 9/16	5/8	4 1/2	1 19/32	3/16	Brown
CTL600L-58	600 kcmil	5/8	1,100/24	5/8	2 1/8	1 9/16	5/8	4 5/16	1 23/32	7/32	Green
CTL750L-58	750 kcmil	5/8	1,325/24	5/8	2 3/8	1 9/16	5/8	4 21/32	1 29/32	1/4	Black
CTL1000L-58	1,000 kcmil	5/8	1,600/24 1,925/24	5/8	2 7/8	1 9/16	5/8	5 5/32	2 1/4	9/32	–

Diagrams



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Color-coded compression connectors

Type LCN – Copper lugs, two-hole mount, long barrel

Copper compression connectors

- For use with copper conductors: AWG stranded, flexible cable, welding cable and portable cord
- Specially designed for industrial and building applications
- Made of high-conductivity seamless copper tubing
- Tin-plated for corrosion resistance
- Specially chamfered barrel for ease of installation
- Color-coded for matching die identification
- Can be used for medium voltage application up to 35 kV, provided proper insulation techniques are used
- CSA certified and UL listed for AWG conductors when installed with Blackburn, Burndy, ABB or Anderson tools, as specified by CSA
- Comply with Subpart 111.60-17 of Federal Register's Coast Guard Electrical Engineering Rules and Regulations

Long barrel connectors

- Ideal for industrial, oil rig, mining, welding and transportation electrical termination applications
- Heavy-duty design which permits additional crimp for added mechanical strength

Type LCN – Copper lugs, two-hole mount, long barrel

Cat. no.	Conductor size (Cu)	Flexible conductor size	Stranded	Stud size (in.)	Dimensions (in.) A	B	C	D	L	W	T	Color code
LCN8-14	8 str.	8	37/24	1/4	25/32	1 3/16	1/4	5/8	2 1/8	15/32	1/16	Red
LCN6-14	6 str.	6	61/24	1/4	25/32	1 1/4	1/4	5/8	1 1/4	13/32	1/16	Blue
LCN6-12	6 str.	6	61/24	1/2	25/32	3	1/2	1 3/4	4 5/32	7/8	3/32	
LCN4-14	4 str.	5	91/24	1/4	25/32	1 3/16	1/4	5/8	2 3/16	17/32	3/16	Gray
LCN4-12	4 str.	5	91/24	1/2	25/32	3	1/2	1 3/4	4 5/32	7/8	3/32	
LCN2-516	2 + 3 str.	3	125/24	5/16	7/8	1 5/8	3/8	3/4	2 15/16	9/16	3/32	Brown
LCN2-12	2 str.	3	125/24	1/2	7/8	3	1/2	1 3/4	4 1/4	7/8	3/32	
LCN1-516	1 str.	2	150/24	5/16	1 1/32	1 5/8	3/8	7/8	2 31/32	21/32	3/32	Green
LCN1-12	1 str.	2	150/24	1/2	1 1/32	3	1/2	1 3/4	4 13/32	7/8	3/32	
LCN10	1/0 str.	1	225/24	1/2	1 1/32	3	1/2	1 3/4	3 31/32	3/4	1/8	Pink
LCN20	2/0 str.	1/0	275/24	1/2	1 5/16	3	1/2	1 3/4	4 3/16	13/16	1/8	Black
LCN30	3/0 str.	2/0	325/24	1/2	1 1/8	2 15/16	1/2	1 3/4	4 7/16	15/16	1/8	Orange
LCN40	4/0 str.	–	–	1/2	1 3/8	3	1/2	1 3/4	4 11/16	1 1/32	1/8	Purple
LCN250	250 kcmil	3/0	450/24	1/2	1 19/32	3	1/2	1 3/4	4 29/32	1 1/16	1/8	Yellow
LCN300	300 kcmil	4/0	550/24	1/2	1 25/32	3	1/2	1 3/4	5 9/32	1 3/16	1/8	White
LCN350	350 kcmil	263	650/24	1/2	1 27/32	3	1/2	1 3/4	5 11/32	1 11/32	5/32	Red
LCN400	400 kcmil	313	775/24	1/2	1 27/32	3	1/2	1 3/4	5 7/16	1 13/32	5/32	Blue
LCN500	500 kcmil	373	925/24	1/2	2 11/32	3	1/2	1 3/4	5 15/16	1 19/32	3/16	Brown
LCN600	600 kcmil	444	1,100/24	1/2	2 1/8	3	1/2	1 3/4	5 3/4	1 23/32	7/32	Green
LCN75	750 kcmil	535	1,325/24	1/2	2 3/8	3	1/2	1 3/4	6 3/32	1 29/32	1/4	Black
LCN99	1,000 kcmil	646 777	1,600/24 1,925/24	1/2	2 7/8	3	1/2	1 3/4	6 19/32	2-1/4	9/32	–

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Color-coded compression connectors

Type CSP – Copper splices, short barrel

Copper compression connectors

- For use with copper conductors: AWG stranded, flexible cable, welding cable and portable cord
- Specially designed for industrial and building applications
- Made of high-conductivity seamless copper tubing
- Tin-plated for corrosion resistance
- Specially chamfered barrel for ease of installation
- Color-coded for matching die identification
- Can be used for medium voltage application up to 35 kV, provided proper insulation techniques are used
- CSA certified and UL listed for AWG conductors when installed with Blackburn, Burndy, ABB or Anderson tools, as specified by CSA
- Comply with Subpart 111.60-17 of Federal Register's Coast Guard Electrical Engineering Rules and Regulations

Short barrel connectors

- Short barrel connectors designed for regular-duty applications
- Ideal for confined areas

Type CSP – Copper splices, short barrel

Cat. no.	Conductor size (Cu)	Length (in.)	Color code
CSP8	8 str.	1	Red
CSP6	6 str.	1	Blue
CSP4	4 str.	1	Gray
CSP2	2 + 3 str.	1¼	Brown
CSP1	1 str.	1½	Green
CSP10	1/0 str.	1⅝	Pink
CSP20	2/0 str.	1¾	Black
CSP30	3/0 str.	1¾	Orange
CSP40	4/0 str.	1⅞	Purple
CSP250	250 kcmil	2¼	Yellow
CSP300	300 kcmil	1⅛	White
CSP350	350 kcmil	2¼	Red
CSP400	400 kcmil	2¾	Blue
CSP500	500 kcmil	2¾	Brown
CSP600	600 kcmil	3	Green
CSP750	750 kcmil	3	Black
CSP1000	1,000 kcmil	3⅝	

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Color-coded compression connectors

Type CU – Copper splices, long barrel

Copper Compression Connectors

- For use with copper conductors: AWG stranded, flexible cable, welding cable and portable cord
- Specially designed for industrial and building applications
- Made of high-conductivity seamless copper tubing
- Tin-plated for corrosion resistance
- Specially chamfered barrel for ease of installation
- Color-coded for matching die identification
- Can be used for medium voltage application up to 35 kV, provided proper insulation techniques are used
- CSA certified and UL listed for AWG conductors when installed with Blackburn, Burndy, ABB or Anderson tools, as specified by CSA
- Comply with Subpart 111.60-17 of Federal Register's Coast Guard Electrical Engineering Rules and Regulations

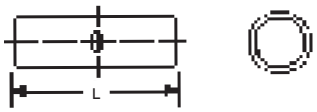
Long Barrel Connectors

- Ideal for industrial, oil rig, mining, welding and transportation electrical termination applications
- Heavy-duty design which permits additional crimp for added mechanical strength

Type CU – Copper splices, long barrel

Cat. no.	Conductor size (Cu)	Flexible conductor CMA	Flexible conductor Stranded	Stud size (in.)	Length (in.)	Color code
CU8	8 str.	8	37/24	¼	1¾	Red
CU6	6 str.	6	61/24	¼	1¾	Blue
CU4	4 str.	5	91/24	¼	1¾	Gray
CU2	2 + 3 str.	3	125/24	5/16	1⅞	Brown
CU1	1 str.	2	150/24	5/16	2	Green
CU10	1/0 str.	1	225/24	5/16	2	Pink
CU20	2/0 str.	1/2	275/24	⅜	2⅛	Black
CU30	3/0 str.	2/0	325/24	½	2¼	Orange
CU40	4/0 str.	–	–	½	2¾	Purple
CU250	250 kcmil	3/0	450/24	½	3⅜	Yellow
CU300	300 kcmil	4/0	550/24	½	3½	White
CU350	350 kcmil	263	650/24	½	3¾	Red
CU400	400 kcmil	313	775/24	⅝	3¾	Blue
CU500	500 kcmil	373	925/24	⅝	4¾	Brown
CU600	600 kcmil	444	1,100/24	⅝	4¼	Green
CU750	750 kcmil	535	1,325/24	⅝	4¾	Black
CU1000	1,000 kcmil	646 777	1,600/24 1,925/24	⅝	5⅝	

Diagrams



See the Color-Keyed tools, dies and kits catalogue for more tool and die information.

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Color-coded compression connectors

Type ATL – Aluminum lugs, one-hole

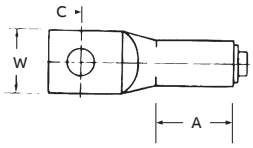
Aluminum compression connectors

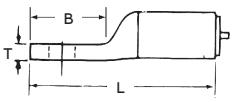
- Specifically designed for use with aluminum conductors (concentric, compressed or compact)
- Also listed for use with copper conductors
- Made of high-conductivity seamless aluminum tubing
- Tin-plated for corrosion resistance
- Chamfered barrels for ease of installation
- Can be used for medium voltage applications up to 35 kV, provided proper insulation techniques are used
- CSA certified and UL listed for AWG conductors when installed with Blackburn, Burndy, ABB or Anderson tools, as specified by CSA
- Color-coded for quick, easy die identification
- Pre-filled with oxide inhibiting compound

Type ATL – Aluminum lugs, one-hole

Cat. no.	Conductor size (Al)	Conductor size (Cu)	Stud size (in.)	A	B	C	L	W	T	Color code
				Dimensions (in.)						
ATL8-10	8 str.	6 AWG	10	1/2	19/32	7/32	1 9/32	13/32	3/32	Blue
ATL8-14	8 str.	6 AWG	1/4	1/2	11/16	11/32	1 3/8	7/16	3/32	
ATL6-10	6 str.	4 AWG	10	25/32	9/16	7/32	1 1/2	15/32	1/8	Gray
ATL6-14	6 str.	4 AWG	1/4	25/32	23/32	15/32	1 21/32	15/32	1/8	
ATL6-38	6 str.	4 AWG	3/8	27/32	29/32	7/16	1 27/32	5/8	3/32	
ATL4-14	4 str.	1 AWG	1/4	27/32	13/16	11/32	1 29/32	5/8	3/16	Green
ATL4-516	4 str.	1 AWG	5/16	27/32	1	7/16	2 1/16	5/8	3/16	
ATL4-38	4 str.	1 AWG	3/8	27/32	29/32	7/16	2	5/8	3/16	
ATL2-14	2 + 3 str.	1/0 AWG	1/4	27/32	25/32	11/32	1 15/16	23/32	3/16	Pink
ATL2-516	2 + 3 str.	1/0 AWG	5/16	27/32	7/8	7/16	2 11/32	3/4	3/16	
ATL2-38	2 + 3 str.	1/0 AWG	3/5	27/32	29/32	7/16	2 1/16	23/32	3/16	
ATL1-516	1 str.	–	5/16	27/32	7/8	7/16	2 1/32	23/32	3/16	Gold
ATL1-38	1 str.	–	3/8	27/32	29/32	7/16	2 3/8	3/4	3/16	
ATL10-516	1/0 str.	–	5/16	1 5/32	1	7/16	2 17/32	7/8	3/16	Tan
ATL10-38	1/0 str.	–	3/8	1 5/32	1 1/16	7/16	2 19/32	7/8	3/16	
ATL10-12	1/0 str.	–	1/2	1 5/32	1 3/8	11/16	2 15/16	15/16	3/16	
ATL20-38	2/0 str.	–	3/8	1 3/16	1	7/16	2 5/8	31/32	7/32	Olive
ATL20-12	2/0 str.	–	1/2	1 3/16	1 3/8	11/16	3	1 1/32	7/32	
ATL30-38	3/0 str.	–	3/8	1 11/32	1 1/16	7/16	2 13/16	1 1/16	7/32	Ruby
ATL30-12	3/0 str.	–	1/5	1 11/32	1 3/8	11/16	3 1/8	1 1/16	7/32	
ATL40-38	4/0 str.	300 kcmill	3/8	1 7/8	1 3/32	3/8	3 3/4	1 3/16	1/4	White
ATL40-12	4/0 str.	300 kcmill	1/2	1 7/8	1 1/4	1/2	3 7/8	1 3/16	1/4	
ATL250-12	250 kcmil	350 kcmil	1/2	2 1/32	1 1/4	1/2	4 1/32	1 9/32	1/4	Red
ATL300-38	300 kcmill	400 kcmill	3/8	2	1 5/16	3/8	4 3/16	1 3/8	9/32	Blue
ATL300-12	300 kcmill	400 kcmill	1/2	2	1 5/16	1/2	4 3/16	1 3/8	9/32	
ATL350-12	350 kcmil	500 kcmil	1/2	2 11/16	1 5/16	1/2	4 7/8	1 1/2	5/16	Brown
ATL400-58	400 kcmil	600 kcmil	5/8	2 11/16	1 1/4	1/2	4 15/16	1 5/8	3/8	Green
ATL500-12	500 kcmil	700 kcmil	1/2	2 11/16	1 1/4	1/2	4 15/16	1 25/32	3/8	Pink
ATL500-58	500 kcmil		5/8	2 11/16	2	3/4	5 11/16	1 25/32	3/8	
ATL600-12	–	600 kcmil	1/2	2 11/16	2	3/4	5 13/16	1 29/32	11/32	Black
ATL750-12	750 kcmil	900 kcmil	1/2	2 7/8	1 1/4	1/2	5 1/4	2 1/8	3/8	–
ATL750-58	750 kcmil	900 kcmil	5/8	2 7/8	2	3/4	6 1/32	2 1/8	3/8	

Diagrams





See the Color-Keyed tools, dies and kits catalogue for more tool and die information.

Color-coded compression connectors

Type ATL – Aluminum lugs, two-hole

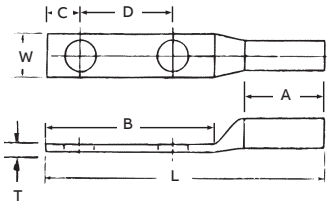
Aluminum compression connectors

- Specifically designed for use with aluminum conductors (concentric, compressed or compact)
- Also listed for use with copper conductors
- Made of high-conductivity seamless aluminum tubing
- Tin-plated for corrosion resistance
- Chamfered barrels for ease of installation
- Can be used for medium voltage applications up to 35 kV, provided proper insulation techniques are used
- Color-coded for quick, easy die identification
- Pre-filled with oxide inhibiting compound
- CSA certified and UL listed for AWG conductors when installed with Blackburn, Burndy, ABB or Anderson tools, as specified by CSA

Type ATL – Aluminum lugs, two-hole

Cat. no.	Conductor size (Al)	Conductor size (Cu)	Stud size (in.)	Dimensions (in.) A	B	C	D	L	W	T	Color code
ATL102-38	1/0 str.	–	3/8	1 5/32	2 1/16	3/8	1	3 19/32	7/8	3/16	Tan
ATL102	1/0 str.	–	1/2	1 3/16	3	1/2	1 3/4	4 9/16	15/16	3/16	
ATL202	2/0 str.	–	1/2	1 3/16	3 3/8	3/4	1 3/4	5	31/32	7/32	Olive
ATL302	3/0 str.	–	1/2	1 11/32	3 3/8	3/4	1 3/4	5 5/32	1 1/16	7/32	Ruby
ATL402	4/0 str.	300 kcmil	1/2	1 7/8	3	1/2	1 3/4	5 5/8	1 3/16	1/4	White
ATL2502	250 kcmil	350 kcmil	1/2	2 1/32	3	1/2	1 3/4	5 25/32	1 9/32	1/4	Red
ATL3002	300 kcmil	400 kcmil	1/2	2	3	1/2	1 3/4	5 7/8	1 3/8	9/32	Blue
ATL3502	350 kcmil	500 kcmil	1/2	2 11/16	3	1/2	1 3/4	6 9/16	1 1/2	5/16	Brown
ATL4002	400 kcmil	600 kcmil	1/2	2 11/16	3	1/2	1 3/4	6 11/16	1 5/8	3/8	Green
ATL5002	500 kcmil	700 kcmil	1/2	2 11/16	3	1/2	1 3/4	6 11/16	1 25/32	3/8	Pink
ATL6002	–	600 kcmil	1/2	2 11/16	3	1/2	1 3/4	6 13/16	1 29/32	11/32	Black
ATL7502	750 kcmil	900 kcmil	1/2	2 7/8	3	1/2	1 3/4	7-1/8	2 1/8	3/8	–

Diagrams



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Color-coded compression connectors

Type ASP – Aluminum splices

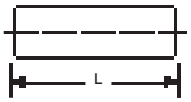
Aluminum compression connectors

- Specifically designed for use with aluminum conductors (concentric, compressed or compact)
- Also listed for use with copper conductors
- Made of high-conductivity seamless aluminum tubing
- Tin-plated for corrosion resistance
- Chamfered barrels for ease of installation
- Can be used for medium voltage applications up to 35 kV, provided proper insulation techniques are used
- Color-coded for quick, easy die identification
- Pre-filled with oxide inhibiting compound
- CSA certified and UL listed when installed with Blackburn, Burndy, ABB or Anderson tools, as specified by CSA

Type ASP – Aluminum splices

Cat. no.	Conductor size (Al)	Conductor size (Cu)	Length (in.)	Color code
ASP8	8 str.	6 AWG	1¼	Blue
ASP6	6 str.	4 AWG	1⅝	Gray
ASP4	4 str.	1 AWG	1⅞	Green
ASP2	2 + 3 str.	1/0 AWG	1⅞	Pink
ASP1	1 str.	–	2⅜	Gold
ASP10	1/0 str.	–	2⅜	Tan
ASP20	2/0 str.	–	2½	Olive
ASP30	3/0 str.	–	2⅞	Ruby
ASP40	4/0 str.	300 kcmil	3¾	White
ASP250	250 kcmil	350 kcmil	4	Red
ASP300	300 kcmil	400 kcmil	4	Blue
ASP350	350 kcmil	500 kcmil	3⅞	Brown
ASP400	400 kcmil	600 kcmil	4⅞	Green
ASP500	500 kcmil	700 kcmil	5	Pink
ASP600	–	600 kcmil	5⅛	Black
ASP750	750 kcmil	900 kcmil	5⅜	
ASP1000	1,000 kcmil	–	6	

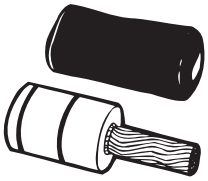
Diagram



See the Color-Keyed tools, dies and kits catalogue for more tool and die information.

Color-coded compression connectors

Type PA – Pin adapter terminals

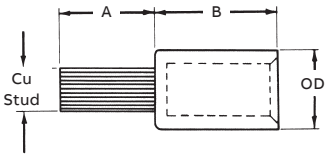


- Connector for aluminum conductors only; pigtail may be inserted into either aluminum or copper connectors
- Insulating cover included
- 90°C rating per UL standard
- Tin-plated stranded copper wire pigtail
- Tin-plated aluminum barrel pre-filled with oxide inhibitor and capped

Type PA – Pin adapter terminals

Cat. no.	Conductor size (Al)	Copper stud size	Dimensions (in.) A	B	O.D.	Color code	Die #
PA06	6 str.	8	7/8	1 11/32	0.640	Orange	50
PA04	4 str.	6	7/8	1 11/32	0.640		50
PA02	2 str.	4	7/8	1 11/32	0.640		50
PA01	1 str.	3	1	1 11/32	0.640		50
PA11	1/0 str.	2	1 1/4	1 19/32	0.906	Red	76
PA21	2/0 str.	1	1 1/4	1 19/32	0.906		76
PA31	3/0 str.	1/0	1 3/8	1 7/8	0.906		76
PA41	4/0 str.	2/0	1 3/8	1 7/8	0.906		76
PA25	250 kcmil	3/0	1 1/2	2 1/16	1.155	Brown	87H
PA30	300 kcmil	4/0	1 5/8	2 1/16	1.155		87H
PA35	350 kcmil	4/0	1 5/8	2 1/16	1.155		87H
PA40	400 kcmil	250 kcmil	1 7/8	2 3/32	1.375	Black	106H
PA50	500 kcmil	350 kcmil	1 7/8	2 3/32	1.375		106H
PA60	600 kcmil	350 kcmil	1 7/8	2 3/4	1.500	Yellow	115H
PA75	750 kcmil	500 kcmil	2	2 3/4	1.500		115H

Diagram



UL listed.
CSA not applicable.

Alum. wire size	Die code	UT3	UT5	TBM5	TBM6	TBM8	13642 12-ton	TBM15 UT15	21920 20-ton
									ABB dies
#6 – #1	50	5/8	TU	Orange	–	–	–	15529	–
1/0 – 4/0	76 or 76H	–	TX	–	13472 Red 13476 Red	13467	11744	15512	11170
250 kcmil – 350 kcmil	87H	–	TH	–	–	13468	11746	15506	11176
400 kcmil – 500 kcmil	106H	–	–	–	–	–	11749	15515	11140
600 kcmil – 750 kcmil	115H	–	–	–	–	–	11753	15504	11157

Color-coded compression connectors

Type OAPA – Offset pin style and type APA center pin style

Optimum design to allow a reliable termination of aluminum or copper

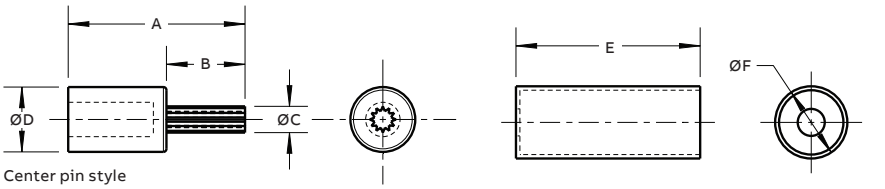
- Easily transition large aluminum cables into mechanical lugs
- Simplify installations in tight working spaces
- Knurled pins provide a solid contact area to ensure low-resistance connection
- Manufactured from high-conductivity aluminum alloy
- Tin plated to eliminate the possibility of galvanic corrosion
- Pre-filled with oxide inhibitor to ensure airtight termination
- Kitted with an insulating boot to eliminate taping

Material: High-conductivity aluminum alloy
Plating: Electro-tin plated
Insulating boot: EPDM rubber except APA-1000 and OAPA-1000 boot are PVC

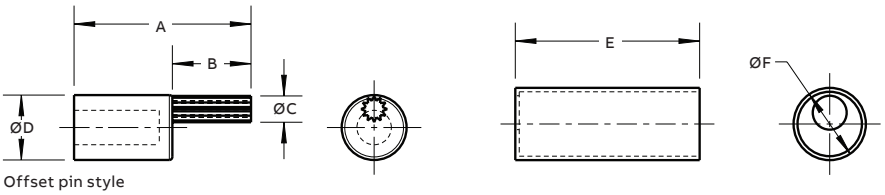
Type OAPA – Offset pin style and type APA center pin style

Cat. no. Center pin style	Cat. no. Offset pin style	Wire size	A Overall length (in.)	B Pin length (in.)	C Pin dia. (in.)	D Barrell dia. (in.)	E Boot length (in.)	F Boot dia. (in.)	Die/Color code
APA-6	–	#6 AWG	1.85	0.68	0.24	0.60	3.06	0.81	**50/Tan**
APA-4	–	#4 AWG	1.85	0.68	0.24	0.60	3.06	0.81	
APA-2	–	#2 AWG	1.85	0.68	0.24	0.60	3.06	0.81	
APA-1	–	#1 AWG	2.01	0.84	0.26	0.60	3.06	0.81	
APA-1/0	–	1/0 AWG	2.21	0.84	0.29	0.85	3.22	1.08	**66/White**
APA-2/0	OAPA-2/0	2/0 AWG	2.21	0.84	0.33	0.85	3.22	1.08	
APA-3/0	OAPA-3/0	3/0 AWG	2.59	1.22	0.37	0.85	3.22	1.08	
APA-4/0	OAPA-4/0	4/0 AWG	2.59	1.22	0.42	0.85	3.22	1.08	
APA-250	OAPA-250	250 kcmil	2.63	1.22	0.47	1.10	3.50	1.30	**87/Brown**
APA-300	OAPA-300	300 kcmil	2.75	1.34	0.53	1.10	3.50	1.30	
APA-350	OAPA-350	350 kcmil	2.75	1.34	0.57	1.10	3.50	1.30	
APA-400	OAPA-400	400 kcmil	3.63	1.60	0.68	1.32	3.75	1.47	**99/Pink**
APA-500	OAPA-500	500 kcmil	3.63	1.60	0.68	1.32	3.75	1.47	
APA-600	OAPA-600	600 kcmil	3.67	1.64	0.73	1.46	4.06	1.72	**115/Yellow**
APA-750	OAPA-750	750 kcmil	3.79	1.76	0.81	1.46	4.06	1.72	
APA-1000	OAPA-1000	1,000 kcmil	4.03	2.00	0.90	1.70	3.33	2.04	**140/–**

Diagrams



Center pin style



Offset pin style

Service wedge clamps

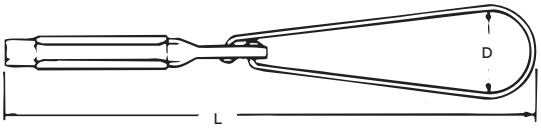
Type W – Stainless steel wedge clamps

- For use on copper neutral
- Stainless steel wedge and slider

Type W – Stainless steel wedge clamps

	Conductor range (AWG or kcmil)			Dimensions (in.)		Typical tensile values	
Cat. no.	**ACSR**	**Al**	**AAAC**	**D**	**L**	**Conductor**	**Value (lb)**
W62D	2–6	1 str. – 6 sol.	2–6	2⅜ flex.	12	2 6 x 1 ACSR	1,200

Diagram



Service wedge clamps

Type W – Aluminum service wedge clamps for use with ACSR, aluminum, AAAC conductors

"FC" flexible bail
(Bail length – 11½ in.)

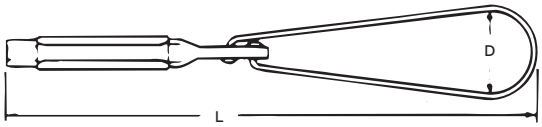
Rigid stainless steel bail
(Bail length – 6½ in.)

- For dead-ending self-supporting drop wire
- Saves conductor – drop wire may be cut to exact length
- Can be attached to bare neutral at any point in the span
- Adjustments in drop wire sag are easily made
- Grips ACSR, AAAC, or aluminum conductors

Type W – Aluminum service wedge clamps for use with ACSR, aluminum, AAAC conductors

		Conductor range (AWG or kcmil)			Dimensions (in.)		Typical Tensile Values	
Cat. no.	**Description**	**ACSR**	**Al**	**AAAC**	**D**	**L**	**Conductor**	**Value (lb)**
W62-1	W-1 Series aluminum wedge and slider	2–6	1 str. – 6 sol.	2–6	2⅜ flex.	12, 17½	2 6 x 1 ACSR	1,200
W62-1FC	W-1 Series aluminum wedge and slider	2–6	1 str. – 6 sol.	2–6	2⅜ flex.	12, 17½	2 6 x 1 ACSR	1,200
W20-1	W-1 Series aluminum wedge and slider	1/0–4	2/0 str. – 2 sol.	1/0–4	2⅜ flex.	12½, 18½	1/0 6 x 1 ACSR	1,800
W20-1FC	W-1 Series aluminum wedge and slider	1/0–4	2/0 str. – 2 sol.	1/0–4	2⅜ flex.	12½, 18½	1/0 6 x 1 ACSR	1,800
W40-1*	W-1 Series aluminum wedge and slider	4/0–2/0	4/0 str. – 2 sol.	4/0–2/0	2⅜ flex.	12¾, 18½	4/0 6 x 1 ACSR	1,900
W40-1FC*	W-1 Series aluminum wedge and slider	4/0–2/0	4/0 str. – 2 sol.	4/0–2/0	2⅜ flex.	12¾, 18½	4/0 6 x 1 ACSR	1,900
W62-1B	W-1B Series for extremely corrosive areas. Iridited aluminum wedge and slider	2–6	1 str. – 6 sol.	2–6	2⅜ flex.	12, 17½	2 6 x 1 ACSR	1,200
W62-1BFC	W-1B Series for extremely corrosive areas. Iridited aluminum wedge and slider	2–6	1 str. – 6 sol.	2–6	2⅜ flex.	12, 17½	2 6 x 1 ACSR	1,200
W20-1B	W-1B Series for extremely corrosive areas. Iridited aluminum wedge and slider	1/0–4	2/0 str. – 2 sol.	1/0–4	2⅜ flex.	12½, 18½	1/0 6 x 1 ACSR	1,800
W20-1BFC	W-1B Series for extremely corrosive areas. Iridited aluminum wedge and slider	1/0–4	2/0 str. – 2 sol.	1/0–4	2⅜ flex.	12½, 18½	1/0 6 x 1 ACSR	1,800
W40-1B*	W-1B Series for extremely corrosive areas. Iridited aluminum wedge and slider	4/0–2/0	4/0 str. – 2 sol.	4/0–2/0	2⅜ flex.	1-¾, 18½	4/0 6 x 1 ACSR	1,900
W40-1BFC*	W-1B Series for extremely corrosive areas. Iridited aluminum wedge and slider	4/0–2/0	4/0 str. – 2 sol.	4/0–2/0	2⅜ flex.	12¾, 18½	4/0 6 x 1 ACSR	1,900

Diagram



* W40 series clamps rated 850 lb ultimate tension for 1/0 ACSR, AL, or AAAC.

Compression connectors and connector covers

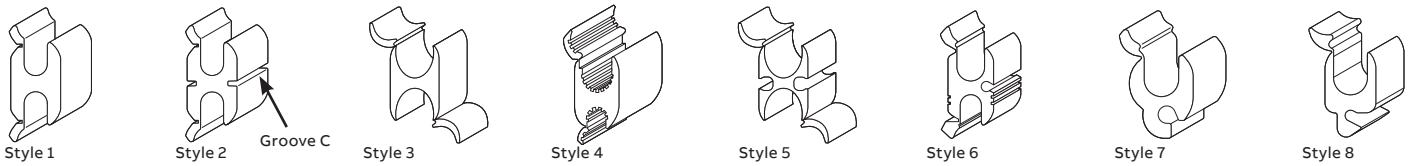
Aluminum H-type

- Prevents oxidation and keeps out moisture
- Easy identification for easy installation
- Approved by the Federal government for utility use
- Comply with ANSI C119.4 when properly installed on aluminum-to-aluminum or aluminum-to-copper conductors

Aluminum H-type

		Standard conductor/ACSR/AAC													
		Main groove, "A" range				Tap groove, "B" range				Side groove, "C" range					
Cat. no.	Style	Groove "A" decimal range	ACSR	Str.	Sol.	Groove "B" decimal range	ACSR	Str.	Sol.	Groove "C" decimal range	Str.	Sol.	L (in.)	Die	Tap CVR.
UB 214	7	0.325–0.162	#2 (7/1)–#6 (6/1)	#2(7)–#6(7)	#1–#6	0.146–0.064	–	#8–#14	#7–#14	–	–	–	¾	⅝ or BG	CO 20, B
OB 2014	8	0.447–0.292	2/0 (6/1)–#2 (6/1)	2/0(19)–#2(7)	–	0.146–0.064	–	#8–#14	#7–#14	–	–	–	¾	O	CO 20, B
OB 44	4	0.332–0.162	#2 (7/1)–#6 (6/1)	#1(19)–#6(7)	#2–#6	0.332–0.162	#2 (7/1)–#6 (6/1)	#1(19)–#6(7)	#2–#6	–	–	–	1⅜	O	CO 20, B
OB1													1½	O	CO 20, B
OB 22	6	0.325–0.162	#2 (7/1)–#6 (6/1)	#2(7)–#6(7)	#2–#6	0.325–0.162	#2 (7/1)–#6 (6/1)	#2(7)–#6(7)	#2–#6	0.148–0.062	#8–#14	8–#14	1½	O	CO 20, B
OB 101	4	0.419–0.258	1/0 (6/1)–#2 (6/1)	2/0(19)–#2(7)	#2	0.332–0.162	#2 (7/1)–#6 (6/1)	#1(19)–#6(7)	#2–#6	–	–	–	1⅜	O	CO 20, B
OB 2													1¾	O	CO 20, B
OB 103	1	0.398–0.162	1/0 (6/1)–#6 (6/1)	1/0(19)–#6(7)	#2–#6	0.332–0.162	#2 (7/1)–#6 (6/1)	#1(19)–#6(7)	#2–#6	–	–	–	1½	O	CO 20, B
OB 1010	1	0.419–0.232	1/0 (6/1)–#4 (6/1)	2/0(19)–#4(7)	#2	0.419–0.232	1/0 (6/1)–#4 (6/1)	2/0(19)–#4(7)	#2	–	–	–	1½	O	CO 20, B
DB 202	4	0.464–0.354	2/0 (6/1)–#1 (6/1)	3/0(7)–1/0(7)	–	0.332–0.162	#2 (7/1)–#6 (6/1)	#1(19)–#6(7)	#2–#6	–	–	–	1½	D or D3	CD40, B
DB 3													1⅞	D or D3	CD40, B
DB 2020	2	0.464–0.354	2/0 (6/1)–#1 (6/1)	3/0(7)–1/0(7)	–	0.464–0.354	2/0 (6/1)–#1 (6/1)	3/0(7)–1/0(7)	–	–	–	–	1⅞	D or D3	CD40, B
DB 404	4	0.563–0.464	4/0 (6/1)–3/0 (6/1)	3/0(7)–4/0(19)	–	0.332–0.162	#2 (7/1)–#6 (6/1)	#1(19)–#6(7)	#2–#6	–	–	–	1⅜	D or D3	CD40, B
DB5													1⅞	D or D3	CD40, B
DB 4020	1	0.563–0.464	4/0 (6/1)–3/0 (6/1)	3/0(7)–4/0(19)	–	0.470–0.316	2/0 (6/1)–#2 (6/1)	3/0(19)–#1(7)	–	–	–	–	1⅞	D or D3	CD40, B
DB 6													2½	D or D3	CD40, B
DB 4040	1	0.563–0.464	4/0 (6/1)–3/0 (6/1)	3/0(7)–4/0(19)	–	0.563–0.464	4/0 (6/1)–3/0 (6/1)	4/0(19)–3/0(7)	–	–	–	–	2³⁄₁₆	D or D3	CD40, B
DB 7													2½	D or D3	CD40, B
NB 500	3	0.814–0.522	477 (18/1)–4/0 (6/1)	500(37)–4/0(7)	–	0.814–0.522	477 (18/1)–4/0 (6/1)	500(37)–4/0(7)	–	–	–	–	3¾	N	NC 600, B
NB 50040	4	0.858–0.528	477 (26/7)–4/0 (6/1)	556.5(37)–4/0(19)	–	0.556–0.368	4/0 (6/1)–1/0 (18/1)	4/0(19)–1/0(7)	3/0–4/0	–	–	–	2	N	NC 600, B
NB 60020	3	0.915–0.575	556.5 (24/7)–266.8 (18/1)	600(61)–250(37)	–	0.419–0.162	1/0 (6/1)–#6 (6/1)	2/0(19)–#6(7)	2/0–#6	–	–	–	2⅛	N	NC 600, B
ZB 954	3	1.196–0.586	954 (54/7)–266.8 (18/1)	1,000(61)–266.8(7)	–	1.196–0.568	954 (54/7)–266.8 (18/1)	1,000(61)–266.8(7)	–	–	–	–	6	Z or R	–
ZB 95440	5	1.140–0.586	795 (30/19)–266.8 (18/1)	750(61)–266.8(7)	–	0.741–0.522	336.4 (30/7)–4/0 (6/1)	350(37)–4/0(7)	–	0.292–0.162	#2–#6	#2–#6	3	Z or R	–
ZB 95410	5	1.140–0.586	795 (30/19)–266.8 (18/1)	750(61)–266.8(7)	–	0.563–0.368	4/0 (6/1)–1/0 (6/1)	4/0(19)–1/0(7)	–	0.292–0.162	#2–#6	#2–#6	3	Z or R	–

Diagrams



Style 1 Style 2 Style 3 Style 4 Style 5 Style 6 Style 7 Style 8

Install with hydraulic tools only. Use UT 5 tool with "O" and "D" connector dies; use UT 15 tool with "O," "D," "N" or "Z" connector dies. For more information, please consult your ABB representative. For Kearney, use "O" and "D" connector dies with mechanical or hydraulic tools. For Burndy®, use "O" and "D-3" connector dies with mechanical or hydraulic tools; use "N," "Z" or "R" connector dies with hydraulic tools. Burndy is a registered trademark of Hubbell Incorporated.

Compression connectors and connector covers

Double-locking latches

CO 20 B

CN 600 B

Secure double-locking latches provide a close-fitting top and bottom seal

- Provide a highly reliable end enclosure
- Prevent accumulation of water within the cover, regardless of which half of the cover is down
- Resists the elements, UV sun rays and common contaminants

Double-locking latches

Cat. no.	Height (in.)	Length (in.)	Width (in.)
CO 20 B	2¼	4½	1⅝
CD 40 B	2⅜	5⅝	1¾
CN 600 B	2 15/16	6⅞	2½

Aluminum lugs

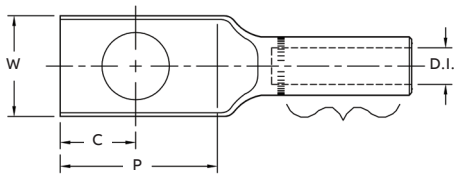
One-hole CSA die lugs

- Use with aluminum and copper conductors
- Provides high strength and high conductivity
- Prevents oxidation and keeps out moisture
- Easy identification
- Meet or exceed ANSI C119.4 specifications

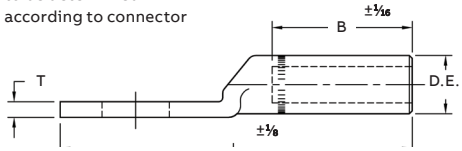
One-hole CSA die lugs

					Dimensions (in.)					
Cat. no.	**Wire size**	**CSA die**	**O.D.**	**I.D.**	**L**	**B**	**P**	**W**	**C**	**T**
GLE 2-48	2 str.–Compr–CPT	22	0.635	0.340	3.13	1.37	1.31	0.88	0.63	0.20
GLE 1/0-48	1/0 str.–Compr–CPT	22	0.640	0.420	3.13	1.37	1.31	0.88	0.63	0.21
GLE 2/0-48	2/0 str. Compr–CPT	24	0.840	0.503	3.44	1.37	1.31	1.14	0.63	0.28
GLE 3/0-48	3/0 str.–Compr–CPT	24	0.840	0.547	3.44	1.37	1.31	1.14	0.63	0.28
GLE 4/0-48	4/0 str.–Compr–CPT	24–6T	0.840	0.597	3.44	1.37	1.31	1.14	0.63	0.28
GLE 250-48	250 str.–Compr–CPT	26	1.000	0.620	3.75	1.63	1.31	1.25	0.63	0.36
GLE 300-48	300 str.–Compr–CPT	26–12T	1.000	0.670	3.75	1.63	1.31	1.25	0.63	0.36
GLE 350-48	350 str.–Compr–CPT	28	1.189	0.730	3.75	1.63	1.31	1.25	0.63	0.34
GLE 500-48	500 str.–Compr–CPT	28–12T	1.187	0.836	3.75	1.63	1.31	1.25	0.63	0.36
GLE 500-48-30	500 str.–Compr–CPT	30–12T	1.438	0.880	5.00	2.50	1.50	1.75	0.63	0.52
GLE 750-48	750 str.–Compr–CPT	30	1.438	1.031	5.88	3.00	1.88	1.75	0.88	0.56

Diagrams



Marking information
Cat. no.
Wire size
Die size
# of crimps and locations to be determined according to connector



Finish: Tin-plated optional, use suffix "-TN".
Material: E.C. grade aluminum.
Connector bores are coated with HM 53 (an oxide-inhibiting compound) and capped.
Mounting holes sized for 1/2" bolts (9/16" hole size).
Optional suffix "-38" for 3/8" bolts (13/32" hole size).

Aluminum lugs

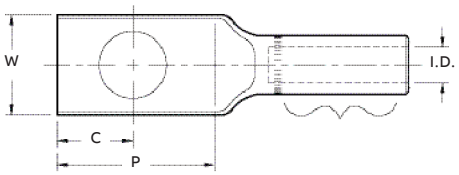
Two-hole CSA die lugs

- Use with aluminum and copper conductors
- Provides high strength and high conductivity
- Prevents oxidation and keeps out moisture
- Easy identification
- Meet or exceed ANSI C119.4 specifications

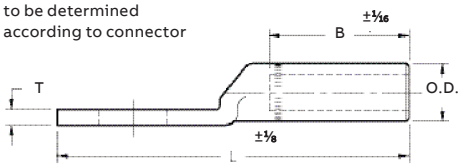
Two-hole CSA die lugs

					Dimensions (in.)				
Cat. no.	**Wire size**	**CSA die**	**O.D.**	**I.D.**	**L**	**B**	**P**	**W**	**T**
GLE 2 N	2 str.–Compr–CPT	22	0.635	0.350	5.29	1.50	3.13	0.88	0.20
GLE 1/0 N	1/0 str.–Compr–CPT	22	0.640	0.420	5.25	1.50	3.13	0.87	0.21
GLE 2/0 N	2/0 str. Compr–CPT	24	0.840	0.503	5.29	1.50	3.13	1.04	0.28
GLE 3/0 N	3/0 str.–Compr–CPT	24	0.840	0.547	5.38	1.50	3.13	1.14	0.28
GLE 4/0 N	4/0 str.–Compr–CPT	24–6T	0.840	0.594	5.38	1.50	3.13	1.14	0.28
GLE 250 N	250 str.–Compr–CPT	26	1.000	0.620	6.00	2.00	3.13	1.25	0.36
GLE 300 N	300 str.–Compr–CPT	26–12T	1.000	0.670	6.00	2.00	3.13	1.25	0.36
GLE 350 N	350 str.–Compr–CPT	28	1.189	0.730	6.00	2.00	3.13	1.25	0.37
GLE 500 N	500 str.–Compr–CPT	28–12T	1.187	0.836	6.38	2.25	3.13	1.25	0.37
GLE 500 N-30	500 str.–Compr–CPT	30	1.438	0.880	6.38	2.50	3.13	1.75	0.40
GLE 750 N	750 str.–Compr–CPT	30	1.438	1.031	7.50	3.00	3.13	1.75	0.40

Diagrams



Marking information _____
Cat. no. _____
Wire size _____
Die size _____
# of crimps and locations
to be determined
according to connector



Finish: Tin-plated optional, use suffix "-TN".
Material: E.C. grade aluminum.
Connector bores are coated with HM 53 (an oxide-inhibiting compound) and capped.
Mounting holes sized for 1/2" bolts (9/16" hole size).
Optional suffix "-38" for 3/8" bolts (13/32" hole size).

Aluminum lugs

One-hole NEMA die lugs

AL 500-48

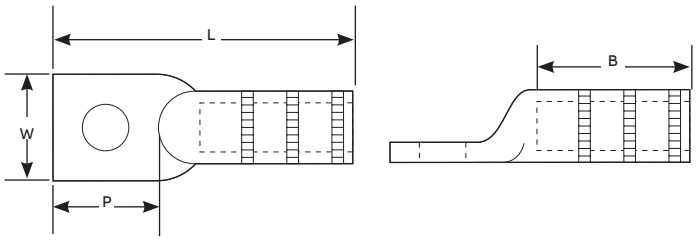
General-purpose lugs for aluminum and copper terminations

- Use with aluminum and copper conductors
- Provides high strength and high conductivity
- Prevents oxidation and keeps out moisture
- Easy identification
- Meets or exceeds ANSI C119.4 specifications

One-hole NEMA die lugs

	Conductor range (AWG or kcmil)				Bolt		Dimensions (in.)			
Cat. no.	Concentric	Compressed	Compact	ACSR	size	Installing dies	B	L	P	W
AL 6-14	#6	–	–	–	1/4	TP, 29, 161, 5/16	3/4	2 5/32	7/8	9/16
AL 4-516	#4				5/16	TB, 37, 375, 162	15/16	2 1/4	31/32	5/8
AL 4-14					1/4		15/16	2 1/4	31/32	5/8
AL 2-14	#2				1/4	TQ, 45, 348, 163, 1/2, 6A	59/64	2 5/8	1 1/32	3/4
AL 2-38					3/8		59/64	2 5/8	1 1/32	3/4
AL 1-38	#1				3/8		59/64	2 5/8	1 1/32	3/4
AL 1/0-38	1/0				3/8	TU, 52, BG, 243, 5/8	1 3/8	3 1/8	1 5/16	7/8
AL 1/0-48					1/2		1 3/8	3 1/8	1 5/16	7/8
AL 2/0-38	2/0				3/8	TW-TY, 58, 297, 5/8 -1	1 5/16	3 3/16	1 7/32	15/16
AL 2/0-48					1/2		1 5/16	3 3/16	1 7/32	15/16
AL 3/0-38	3/0				3/8	737, 467	1 9/16	3 7/16	1 5/16	1 1/16
AL 3/0-48					1/2		1 9/16	3 7/16	1 5/16	1 1/16
AL 4/0-38	4/0				3/8	TX, 71H, 298, 840, 11A	1 7/16	3 9/16	1 11/32	1 3/16
AL 4/0-48					1/2		1 7/16	3 9/16	1 11/32	1 3/16
AL 250-48	250, 4/0			4/0	1/2	TX, 76, 249, 840, 11A	1 9/16	3 5/8	1 5/16	1 15/64
AL 300-48	300, 266.8		350	266.8 (18/1)	1/2	TH, 87H, 251, 470, 1, 12A	2 3/16	4	1 5/16	1 3/8
AL 350-48	350, 336.4		400	266.8 (26/7), 336.4 (18/1)	1/2	96, 299, 655, 1 1/8-1, 13A	2 3/16	4 1/4	1 5/16	1 1/2
AL 400-48	400, 397.5		–	336.4 (26/7), 397.5 (18/1)	1/2		2 1/2	4 7/8	1 1/4	1 5/8
AL 400-58					5/8		2 1/2	4 7/8	1 1/4	1 5/8
AL 500-48	500, 477		600	379.5 (26/7), 477 (18/1)	1/2	106A, 300, 317, 1 5/16, 14A	3	5 7/16	1 1/2	1 3/4
AL 500-58					5/8		3	5 7/16	1 1/2	1 3/4
AL 600-48	600, 550		–	477 (26/7), 556.5 (18/1)	1/2	1 5/16, 115H, 786, 936, 473	3	5 21/32	1 9/16	1 15/16
AL 600-58					5/8		3	5 21/32	1 9/16	1 15/16
AL 750-48	750, 700			636 (26/7)	1/2	140H, 301, 342, 1 1/2	3 3/8	6 3/8	1 7/8	1 3/4
AL 750-58					5/8		3 3/8	6 3/8	1 7/8	1 3/4
AL 800-48	800			–	1/2	1 1/2, 474, 140H	3 9/16	6 5/8	2 1/32	1 3/4
AL 800-58					5/8		3 9/16	6 5/8	2 1/32	1 3/16
AL 1000-48	1000, 954			795 (26/7), 954 (45/7)	1/2	161, 292, 302, 319, 1 3/4	4 5/8	7 15/16	1 7/8	2 7/16
AL 1000-58					5/8		4 5/8	7 15/16	1 7/8	2 7/16

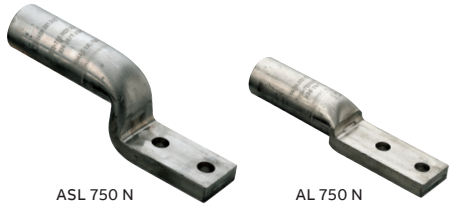
Diagrams



For tin-plated, add "-TN" suffix to the catalogue number. All tin-plated lugs are UL listed through 1000 kcmil.
For straight lugs with tapered ends used in high-voltage applications, please consult your ABB representative.

Aluminum lugs

Two-hole NEMA die lugs



ASL 750 N AL 750 N

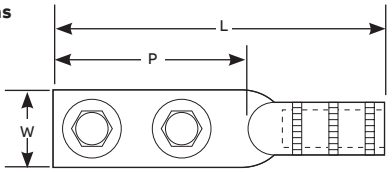
General-purpose lugs for aluminum and copper terminations

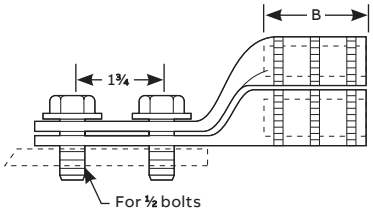
- Use with aluminum and copper conductors
- Provides high strength and high conductivity
- Prevents oxidation and keeps out moisture
- Easy identification
- Meets or exceeds ANSI C119.4 specifications

Two-hole NEMA die lugs

Straight lug Cat. no.	Stacking lug Cat. no.	Conductor range (AWG or kcmil) Concentric	Compr.	Compact	ACSR	Solid	Installing dies	Dimensions (in.) B	L	P	W
SA 6 N	ASL 6 N	#6	#6	#6, #4	#6	4	TU, 52, BG, 243, 5/8, CSA 22	1 15/32	5 1/4	3 3/16	7/8
SA 4 N	ASL 4 N	#4	#4	–	#4	2		1 15/32	5 1/4	3 3/16	7/8
SA 2 N	ASL 2 N	#2-#1	#1	#1	#2	1/0		1 1/2	5 3/16	3 1/4	1
AL 1/0 N	ASL 1/0 N	1/0	–	2/0	1/0	2/0	TU, 52, BG, 243, 5/8	1 1/2	5 1/4	3 3/16	7/8
AL 2/0 N	ASL 2/0 N	2/0		–	–	–	TW-TY, 58, 297, 5/8-1	1 1/2	5 1/4	3 3/16	15/16
AL 3/0 N	ASL 3/0 N	3/0					TV, 66, 167, 467, 10A	1 7/16	5 1/2	3 1/4	1 1/16
AL 4/0 N	ASL 4/0 N	4/0					TX, 71H, 298, 840, 11A	1 15/16	6	3 11/32	1 15/64
AL 250 N	ASL 250 N	250, 4/0		250-300	4/0 (6/1)		TX, 76, 249, 840, 11A	1 15/16	6	3 11/32	1 15/64
AL 300 N	ASL 300 N	300, 266.8		350	266.8 (18/1)		TH, 87H, 251, 470, 1, 12A	2 3/16	6 9/16	3 9/16	1 11/32
AL 350 N	ASL 350 N	350, 336.4		–	266.8 (26/7), 336.4 (18/1)		96, 299, 655, 1 1/8-1, 705, 13A	2 3/16	6 9/16	3 11/16	1 3/4
AL 336 NSC	–	397.5-400			336.4 (26/7), 397.5 (18/1)		1 1/4, 99H, 317, 20AH	4 3/16	9	3 11/16	1 21/32
AL 400 N	ASL 400 N	400, 397.5					96, 472, 655, 1 1/8-1, 1 1/8-2, 705, 316, 13A	2 7/16	7 5/16	3 9/16	1 3/4
AL 500 N	ASL 500 N	500, 477		500-600	397.5 (26/7), 477 (18/1)		106A, 300, 317, 1 5/16, 14A, 15A	2 15/16	8 1/4	3 9/16	1 3/4
AL 500 N 608	–			600			608	3 1/3	8-1/4	3 9/16	1 3/4
AL 600 N	ASL 600 N	600, 550		–	477 (26/7), 556.5 (18/1)		1 5/16, 115H, 786, 936, 473	2 15/16	7 3/4	3 5/8	1 3/4*
AL 700 N 608	–	700, 600		700-795	–		125H, 608	3 1/6	7 3/8	3 1/2	1 3/4
AL 750 N	ASL 750 N	750, 700		–	636 (26/7)		140H, 301, 342, 1 1/2	3 5/16	8 1/4	3 3/4	1 3/4*
AL 750 N 608	ASL 750 N 608						125H, 608	3 3/8	8 1/4	3 5/8	1 3/4
AL 800 N	ASL 800 N	800, 795			663 (30/19), 715.5 (54/7)		140H, 474, 342, 724, 1 1/2	3 11/32	8 5/16	3 5/8	1 3/4*
AL 800 N 608	–	800, 700			636 (30/19), 715.5 (54/7)		608	3 1/3	8 1/4	3 5/8	1 3/4
AL 1000 N	ASL 1000 N	1000, 954			795 (26/7, 30/19), 954 (45/7)		161, 292, 302, 319, 1 3/4	4 11/16	8 9/16	3 5/8	2 7/16
AL 1000 SSN	ASL 1000 SSN	1000			–			4 11/16	9 7/8	1 7/8	2 7/16
AL 1000 NMSNP	–							4 11/16	9 1/2	3 5/8	1 3/4
AL 954 NMSNP		–			954 (54/7)			4 11/16	9 3/8	3 5/8	1 3/4
AL 1250 N	ASL 1250 N	1200-1300			1113 (45/7), 1192.5 (45/7)		161, 727, 352	4 11/16	9 11/16	3 5/8	2 21/32
AL 1750 N	ASL 1750 N	1750			–		214, 735, 225	5 1/2	10 7/8	3 7/8	3 13/32
AL 2000 N	ASL 2000 N	2000					479	6 1/16	11 15/16	3 7/8	3 13/32

Diagrams

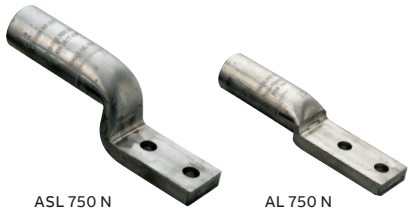




For tin-plated, add "-TN" suffix to the catalogue number. All tin-plated lugs are UL listed through 2000 kcmil.
For straight lugs with tapered ends used in high-voltage applications, please consult your ABB representative.
Trimmed to 1 3/4" maximum to fit side-by-side on NEMA spades.

Aluminum lugs

Tin-plated two-hole NEMA lugs



ASL 750 N AL 750 N

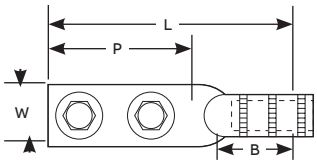
General-purpose lugs for aluminum and copper terminations

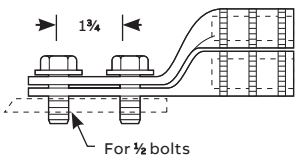
- Use with aluminum and copper conductors
- Provides high strength and high conductivity
- Prevents oxidation and keeps out moisture
- Easy identification
- Meet or exceed ANSI C119.4 specifications

Tin-plated tapered tees

Straight lug Cat. no.	Stacking lug Cat. no.	Conductor range (AWG or kcmil) Concentric	Compr.	Compact	ACSR	Solid	Installing dies	Dimensions (in.) B	L	P	W
SA 6 NTN	ASL 6 NTN	#6	#6	#6, #4	#6	#4	TU, 52, BG, 243, 5/8, CSA 22	1 15/32	5 1/4	3 3/16	7/8
SA 4 NTN	ASL 4 NTN	#4	#4	–	#4	#2		1 15/32	5 1/4	3 3/16	7/8
SA 2 NTN	ASL 2 NTN	#2-#1	#1	#1	#2	1/0		1 1/2	5 3/16	3 1/4	1
AL 1/0 NTN*	ASL 1/0 NTN*	1/0	–	2/0	1/0	2/0	TU, 52, BG, 243, 5/8	1 1/2	5 1/4	3 3/16	7/8
AL 2/0 NTN*	ASL 2/0 NTN*	2/0		–	–	–	TW-TY, 58, 297, 5/8-1	1 1/2	5 1/4	3-3/16	15/16
AL 3/0 NTN*	ASL 3/0 NTN*	3/0					TV, 66, 167, 467, 10A	1 7/16	5 1/2	3 1/4	1 1/16
AL 4/0 NTN*	ASL 4/0 NTN*	4/0					TX, 71H, 298, 840, 11A	1 15/16	6	3 11/32	1 15/64
AL 250 NTN*	ASL 250 NTN*	250, 4/0		250-300	4/0 (6/1)		TX, 76, 249, 840, 11A	1 15/16	6	3 11/32	1 15/64
AL 300 NTN*	ASL 300 NTN*	300, 266.8		350	266.8 (18/1)		TH, 87H, 251, 470, 1, 12A	2 3/16	6 9/16	3 9/16	1 11/32
AL 350 NTN*	ASL 350 NTN*	350, 336.4		–	266.8 (26/7), 336.4 (18/1)		96, 299, 655, 1 1/8-1, 705, 13A	2 3/16	6 9/16	3 11/16	1 3/4
AL 336 NSCTN	–	397.5-400			336.4 (26/7), 397.5 (18/1)		1 1/4, 99H, 317, 20AH	4 3/16	9	3 11/16	1 21/32
AL 400 NTN*	ASL 400 NTN*	400, 397.5					96, 472, 655, 1 1/8-1, 1 1/8-2, 705, 316, 13A	2 7/16	7 5/16	3 9/16	1 3/4
AL 500 NTN*	ASL 500 NTN*	500, 477		500-600	397.5 (26/7), 477 (18/1)		106A, 300, 317, 1 5/16, 14A, 15A	2 15/16	8 1/4	3 9/16	1 3/4
AL 500 N 608 TN	–			600			608	3 1/3	8 1/4	3 9/16	1 3/4
AL 600 NTN*	ASL 600 NTN*	600, 550		–	477 (26/7), 556.5 (18/1)		1 5/16, 115H, 786, 936, 473	2 15/16	7 3/4	3 5/8	1 3/4*
AL 700 N 608TN	–	700, 600		700-795	–		125H, 608	3 1/6	7 3/8	3 1/2	1 3/4
AL 750 NTN*	ASL 750 NTN*	750, 700		–	636 (26/7)		140H, 301, 342, 1 1/2	3 5/16	8 1/4	3 3/4	1 3/4*
AL 750 N 608*	ASL 750 N 608*	750, 700					125H, 608	3 3/8	8 1/4	3 5/8	1 3/4
AL 800 NTN*	ASL 800 NTN*	800, 795			663 (30/19), 715.5 (54/7)		140H, 474, 342, 724, 1 1/2	3 11/32	8 5/16	3 5/8	1 3/4*
AL 800 N 608 TN	–	800, 700			636 (30/19), 715.5 (54/7)		608	3 1/3	8 1/4	3 5/8	1 3/4
AL 954 NMS		–			954 (54/7)		161, 292, 302, 319, 1 3/4	4 11/16	9 3/8	1 7/8	1 3/4
AL 1000 NTN*	ASL 1000 NTN*	1000, 954			795 (26/7, 30/19), 954 (45/7)			4 9/16	8 9/16	3 5/8	2-7/16
AL 1000 SSNTN	ASL 1000 SSNTN	1000			–			4 9/16	9 7/8	3 5/8	2 7/16
AL 1000 NMS	–							4 11/16	9 1/2	3 5/8	1 3/4
AL 1250 NTN	ASL 1250 NTN	1200-1300			1113 (45/7), 1192.5 (45/7)		161, 727, 352	4 11/16	9 11/16	3 5/8	2 21/32
AL 1750 NTN	ASL 1750 NTN	1750			–		214, 735, 225	5 1/2	10 7/8	3 7/8	3 13/32
AL 2000 NTN	ASL 2000 NTN	2000					479	6 1/16	11 15/16	3 7/8	3 13/32

Diagrams





* UL listed.

For two-hole lugs that are not tin-plated, see page 33. For straight lugs with tapered ends used in high-voltage applications, please consult your ABB representative.

Aluminum lugs

Four-hole NEMA lugs

AL 1000-4N

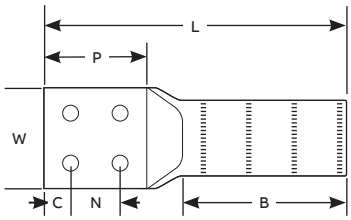
General-purpose lugs for aluminum and copper terminations

- Use with aluminum and copper conductors
- Provides high strength and high conductivity
- Prevents oxidation and keeps out moisture
- Easy identification

Four-hole NEMA lugs

	Conductor range (AWG or kcmil)							Dimensions (in.)	
Cat. no.	**Concentric**	**ACSR**	**Installing dies**	**B**	**N**	**C**	**W**	**P**	**L**
AL 1000-4N	1000	–	161, 302, 292, 319, 1¾	4 9/16	1¾	⅝	3	4	10
AL 14136 X	1033.5-1300	900-1113	161, 727, 352	7 11/16		⅝	3	4¼	13¾
AL 1033-4N	–	1033.5 (54/7)	34 AH	6 3/16		⅝	3⅜	3 11/16	12¾
AL 1250-4N	1250	–	161, 727, 352	4⅝		⅝	3	3 9/16	10
AL 1272-4N	1272		161, 727, 352, 579	6 7/16		⅝	3	3⅝	11¼
AL 1590-4N	1590	1272 (45/7)	728, 38AH, 189	8 7/16		⅝	3	3⅝	13½
AL 1750-4N	1750	–	214, 735, 40AH, 225	6 11/16		⅞	3½	3¾	12⅛
AL 2000-4N	1700-2000	1510.5-1590		6 11/16		⅞	3½	3¾	12⅛
AL 2300-4N	2250-2300	2167 (72/7)	44AH	11¾		1⅛	4	4½	18½
AL 2500-4N	2500	2156-2167	214	9⅛		1⅛	3½	4	15⅜

Diagram



For tin-plated option, add "-TN" suffix to the catalogue number.

Aluminum lugs

One-hole NEMA lugs – Common die series

SA 3/0-48

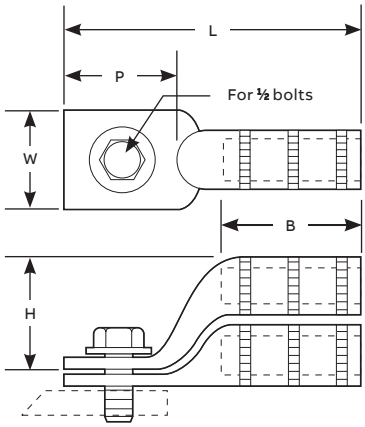
Designed for general applications and for installation on Homac 125 Series insulated buses

- Lessens your die inventory
- Double terminal capacity of transformer spades and buses to save money
- Use with aluminum and copper conductors
- Provides high strength and high conductivity
- Easy identification
- Meets or exceeds ANSI C119.4 specifications

One-hole NEMA lugs – Common die series

Straight lug Cat. no.	Stacking lug Cat. no.	Conductor – Al or Cu: Concentric	Compressed	Compact	Solid	ACSR	Installing dies	Dimensions (in.): B	H	L	P	W
SA 12-48	–	#12	–	–	#12	–	TU, 52, BG, 243, 5/8, CSA 22	23/32	–	2 9/16	1 1/4	7/8
SA 10-48								23/32		2 9/16	1 1/4	7/8
SA 8-48		#8			#6			1 5/16		3 1/8	1 5/16	7/8
SA 6-48		#6	#6	#4	#4	#6		1 5/16		3 1/8	1 5/16	7/8
SA 4-48		#4	#4		#2	#4		1 5/16		3 1/8	1 5/16	7/8
SA 3-48		#2	#2	#1, #2	#1	–		1 5/16		3 1/8	1 5/16	7/8
SA 2-48	SASL 2-48	#1, #2	#1	#1	1/0	#2		1 5/16	1 1/2	3 1/8	1 5/16	7/8
SA 386-48	–	#1	1/0	1/0	–	–		1 5/16	–	3 1/8	1 5/16	7/8
SA 1/0-48	SASL 1/0-48	1/0	2/0	2/0		1/0		1 5/16	1 1/2	3 1/8	1 5/16	7/8
SA 2/0-48	SASL 2/0-48	2/0	3/0	3/0	3/0	2/0 (6/1)	TX, 76, 249, 840, 845, 11A, CSA 24	1 25/64	1 3/4	3 21/64	1 11/32	1 5/32
SA 3/0-48	SASL 3/0-48	3/0	4/0	4/0	–	3/0		1 25/64	1 3/4	3 21/64	1 11/32	1 5/32
SA 4/0-48	SASL 4/0-48	4/0, 250	4/0, 250	250, 300		4/0		1 25/64	1 3/16	3 21/64	1 11/32	1 5/32
SA 300-48	–	300	300	350		266.8 (18/1)	96, 299, 655, 321, 316, 13A, 1 (1/8-1), 472, CSA 28	1 19/32	–	3 5/8	1 11/32	1 1/4
SA 350-48		336.4-350	350	400		266.8 (26/7), 336.4 (18/1)		1 19/32		3 5/8	1 11/32	1 1/4
SA 400-48		336.4-400	400	500		336.4 (18/1), 397.5 (18/1)		1 19/32		3 5/8	1 11/32	1 1/4

Diagrams



For tin-plated option, add "-TN" suffix to the catalogue number.
To order a stud size not specified with a terminal lug on this page, change the last two digits from "48" (designating a 1/2" stud) to "38" (for a 3/8" stud).

Aluminum lugs

Two-hole NEMA – Common die series

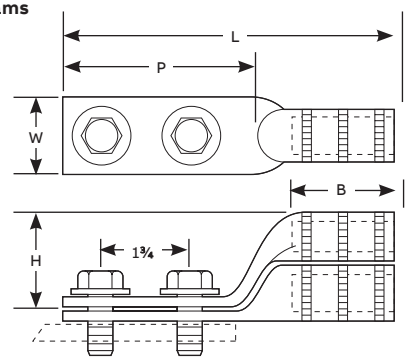
Designed for general applications and for installation on Homac 125-N Series insulated buses

- Lessens your die inventory
- Double terminal capacity of transformer spades and buses to save money
- Use with aluminum and copper conductors
- Provides high strength and high conductivity
- Prevents oxidation and keeps out moisture
- Easy identification
- Meets or exceeds ANSI C119.4 specifications

Two-hole NEMA – Common die series

Straight lug Cat. no.	Stacking lug Cat. no.	Conductor – Al or Cu					Installing dies	Dimensions (in.)				
		Concentric	Compressed	Compact	Solid	ACSR		B	H	L	P	W
SA 8 N	–	#8	–	–	#6	–	TU, 52, BG, 243, ⅝, CSA 22	1 15/16	–	5⅛	3 3/16	⅞
SA 6 N	SASL 6 N	#6	#6	#4	#4	#6		1 15/16	1½	5⅛	3 3/16	⅞
SA 4 N	–	#4	#4	#4	#2	#4		1 15/16	–	5⅛	3 3/16	⅞
SA 3 N		#2	#2	#1, #2	#1	–		1 15/16		5⅛	3 3/16	⅞
SA 2 N		#1, #2	#1	#1	1/0	#2		1½		5 3/16	3⅛	1
SA 386N		#1, 1/0	#1, 1/0	1/0	–	#1		1 27/32		5½	3	⅞
AL 1/0 N	SASL 1/0 N	1/0	1/0	2/0	2/0	1/0		1½	1½	5¼	3 3/16	⅞
SA 2/0 N	SASL 2/0 N	2/0	2/0	3/0	3/0	2/0 (6/1)	TX, 76, 249, 840, 845, 11A, CSA 24	1 15/16	1¾	6	3⅜	1¼
SA 3/0 N	SASL 3/0 N	3/0	4/0	4/0	–	3/0		1 15/16	1¾	6	3 5/16	1 5/32
SA 4/0 N	SASL 4/0 N	4/0, 250	4/0, 250	250, 300		4/0		1 15/16	1 3/16	6	3 5/16	1 7/32
SA 300 N	–	300	300	350		266.8 (18/1)	96, 299, 655, 705, 321, 316, 13A, 1 (⅛-1), 472, CSA 28	2 1/16	–	6¼	3	1¼
SA 350 N		336.4-350	350	400		266.8 (26/7), 336.4 (18/1)		2 3/16		6¼	3	1¼
SA 400 N		336.4-400	400	500		336.4 (18/1), 397.5 (18/1)		2 7/16		6⅜	3	1¼

Diagrams



For ½ bolts

For tin-plated option, add "-TN" suffix to the catalogue number.

Aluminum lugs

Meter socket lugs – 840 Common die series

SAKM 250-48

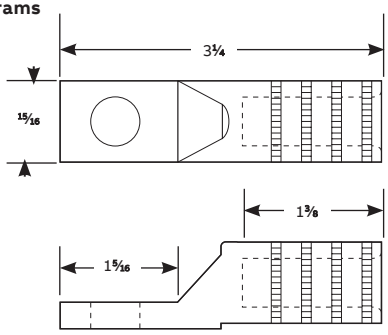
Just one die installs the entire conductor range for meter pan and general applications

- Lessens your die inventory
- Provides high strength and high conductivity
- Use with aluminum and copper conductors
- Prevents oxidation
- Easy identification
- Meets or exceeds ANSI C119.4 specifications

Meter socket lugs – 840 Common die series

½ bolt Cat. no.	⅜ bolt Cat. no.	Conductors – Al or Cu: Concentric	Compressed	Compact	Solid	Installing dies
SAKM 6-48	SAKM 6-38	#6	#6	#6	–	840, 845, TX, 76, 249, 11A
SAKM 4-48	SAKM 4-38	#4	#4	#4	–	840, 845, TX, 76, 249, 11A
SAKM 2-48	SAKM 2-38	#2	#2	#2, #1	#1	840, 845, TX, 76, 249, 11A
SAKM1-48	SAKM 1-38	#1	#1	1/0	1/0	840, 845, TX, 76, 249, 11A
SAKM 1/0-48	SAKM 1/0-38	1/0	1/0	2/0	2/0	840, 845, TX, 76, 249, 11A
SAKM 2/0-48	SAKM 2/0-38	2/0	2/0	3/0	3/0	840, 845, TX, 76, 249, 11A
SAKM 3/0-48	SAKM 3/0-38	3/0	3/0	4/0	–	840, 845, TX, 76, 249, 11A
SAKM 4/0-48	SAKM 4/0-38	4/0	4/0	250	–	840, 845, TX, 76, 249, 11A
SAKM 250-48*	SAKM 250-38*	250	250	300	–	840, 845, TX, 76, 249, 11A
SAKM 300-48*	SAKM 300-38*	300	300	350	–	840, 845, TX, 76, 249, 11A
SAKM 350-48*	SAKM 350-38*	350	350	–	–	840, 845, TX, 76, 249, 11A

Diagrams



* For aluminum conductors only.
For tin-plated option, add "-TN" suffix to the catalogue number.

Aluminum lugs

Tin-plated meter socket lugs – Star hole

MSL 350

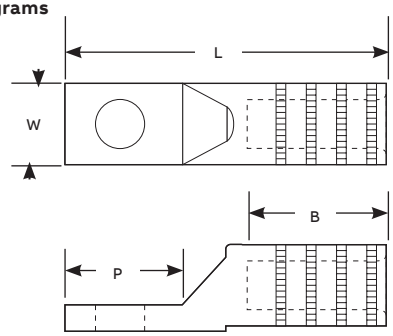
Dual-rated, corrosion-resistant lugs available with star holes

- Provides high strength and high conductivity
- Use with aluminum and copper conductors
- Resistant to corrosion
- Prevents oxidation and keeps out moisture

Tin-plated meter socket lugs – Star hole

			Dimensions (in.)			
Cat. no.	**Conductor size**	**Installing dies**	**W**	**L**	**P**	**B**
MSL 4	#4 str. cpt.	840, 845, TX, 76, 249, 11A	15/16	3¼	1 5/16	1⅜
MSL 2	#2 str. cpt.	840, 845, TX, 76, 249, 11A	15/16	3¼	1 5/16	1⅜
MSL 1/0	1/0 str. cpt.	840, 845, TX, 76, 249, 11A	15/16	3¼	1 5/16	1⅜
MSL 2/0	2/0 str. cpt.	840, 845, TX, 76, 249, 11A	15/16	3¼	1 5/16	1⅜
MSL 3/0	3/0 str. cpt.	840, 845, TX, 76, 249, 11A	15/16	3¼	1 5/16	1⅜
MSL 4/0	4/0 str. cpt.	840, 845, TX, 76, 249, 11A	15/16	3¼	1 5/16	1⅜
MSL 250	250 str. cpt.	840, 845, TX, 76, 249, 11A	15/16	3¼	1 5/16	1⅜
MSL 300	300 str. cpt.	840, 845, TX, 76, 249, 11A	15/16	3¼	1 5/16	1⅜
MSL 350	350 str. cpt.	840, 845, TX, 76, 249, 11A	15/16	3¼	1 5/16	1⅜
MSL 500	500 str.	106A, 300, 317, 1 5/16, 15A	1¾	4⅞	1¾	3 3/16

Diagrams



Aluminum lugs

Two-hole NEMA lugs – Common die series

SAB 500 N

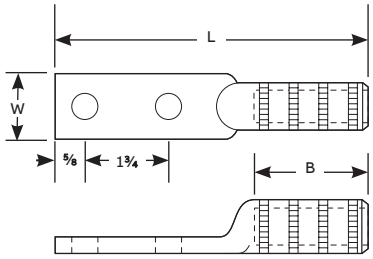
Lugs designed for general-purpose substation and switchyard equipment use

- Lessens your die inventory
- Use with aluminum and copper conductors
- Provides high strength and high conductivity
- Prevents oxidation and keeps out moisture
- Easy identification

Two-hole NEMA lugs — Common die series

	Conductor range (AWG or kcmil)					Dimensions (in.)		
Cat. no.	**Concentric**	**Compressed**	**Compact**	**ACSR**	**Installing dies**	**L**	**W**	**B**
SAK 4 N	#4	–	–	–	TX, 76, 249, 840, 11A	5¾	1¼	2
SAK 2 N	#1, #2	–	–	#2	TX, 76, 249, 840, 11A	5¾	1¼	2
SAK 1/0 N	1/0	2/0	2/0	1/0	TX, 76, 249, 840, 11A	5¾	1¼	2
SAK 300 N	–	–	350	–	TX, 76, 249, 840, 11A	6¼	1¼	2 1/16
SAK 350 N	350	–	–	–	TX, 76, 249, 840, 11A	6¼	1¼	2 1/16
SAB 3/0 N	3/0	–	–	3/0	96, 299, 655, 1 (⅛-1), 13A	6⅜	1½	2¼
SAB 4/0 N	4/0, 250	–	–	4/0	96, 299, 655, 1 (⅛-1), 13A	6⅜	1½	2¼
SAB 250 N	266.8-300	–	–	266.8 (18/1)	96, 299, 655, 1 (⅛-1), 13A	6⅜	1½	2¼
SAB 500 N	477-500	–	600	397.5 (26/7, 30/7), 477 (18/1)	96, 299, 655, 1 (⅛-1), 13A	6⅜	1¼	2¼
SAM 400 N	397.5-400	–	500	336.4 (30/7), 397.5 (18/1)	106, 300, 317, 1 5/16, 14A, 15A	8 29/64	1¾	3 13/16
SAM 556 N	500-556	–	–	477 (26/7), 556.5 (18/1)	106, 300, 317, 1 5/16, 14A, 15A	8⅜	1¾	3 27/32
SAM 600 N	600	–	–	–	106, 300, 317, 1 5/16, 14A, 15A	8⅜	1¾	3 27/32

Diagrams



Aluminum lugs

Four-hole NEMA lugs – Common die series

MSL 350

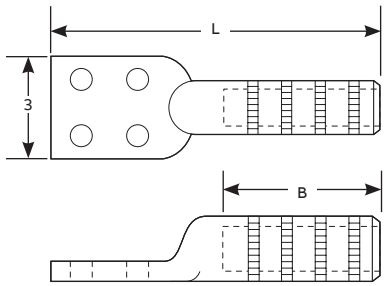
Durable four-hole lugs for general-purpose substation and switchyard equipment use

- Lessens your die inventory
- Use with aluminum and copper conductors
- Provides high strength and high conductivity
- Prevents oxidation and keeps out moisture
- Easy identification

Four-hole NEMA lugs – Common die series

	Conductor range (AWG or kcmil)				Dimensions (in.)	
Cat. no.	**Concentric**	**Compact**	**ACSR**	**Installing dies**	**L**	**B**
SAM 3/0-4N*	3/0	–	–	1 5/16, 300, 14A, 106, 317	8 1/8	3 5/16
SAM 4/0-4N*	4/0	–	4/0	1 5/16, 300, 14A, 106, 317	8 1/8	3 5/16
SAM 250-4N*	250	–	–	1 5/16, 300, 14A, 106, 317	8 1/8	3 5/16
SAM 300-4N*	300	–	–	1 5/16, 300, 14A, 106, 317	7 5/8	3 21/64
SAM 350-4N*	336.4-350	–	266.8 (26/7), 336.4 (18/1)	1 5/16, 300, 14A, 106, 317	7 5/8	3 21/64
SAM 400-4N*	397.5-400	–	336.4 (30/7), 397.5 (18/1)	1 5/16, 300, 14A, 106, 317	7 5/8	3 21/64
SAM 500-4N*	500	–	–	1 5/16, 300, 14A, 106, 317	8 1/4	3 5/16
SAM 600-4N*	556.5-600	–	–	1 5/16, 300, 14A, 106, 317	8 1/4	3 5/16
SAL 500-4N*	500	–	477 (18/1)	140H, 301, 342, 1 1/2	8 1/4	3 3/8
SAL 600-4N	600	–	477 (24/7, 30/7)	140H, 301, 342, 1 1/2	7 5/8	3 3/8
SAL 650-4N	600, 636, 650	–	556.5 (24/7, 26/7)	140H, 301, 342, 1 1/2	7 5/8	3 3/8
SAL 750-4N	700-750	–	636 (26/7)	140H, 301, 342, 1 1/2	9	4 7/32
SAL 800-4N	700-800	954	636 (26/7)	140H, 301, 342, 1 1/2	8 3/4	4 3/32
SAL 1000-4N	1,000	1,000	795 (30/19), 874 (54/7)	140H, 301, 342, 1 1/2	8 3/4	4 5/32
SAL 1033-4N	1,033	–	900 (54/7), 954 (45/7)	140H, 301, 342, 1 1/2	9	4 5/32

Diagrams

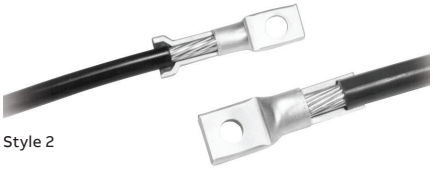


* Designates 2-piece welded design.

Aluminum lugs

Shrouded one-hole lugs – Common die series

RSG 1/0-48



Style 2

Style 1

RSK 2-48

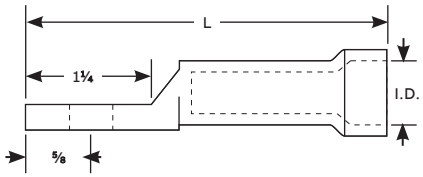
If you need rain protection, these lugs have you covered

- Prevents rainwater from entering cable
- Lessens your die inventory
- Provides high strength and high conductivity
- Use with aluminum and copper conductors
- Prevents oxidation
- Easy identification
- Meets or exceeds ANSI C119.4 specifications

Shrouded one-hole lugs – Common die series

	Conductor size (AWG or kcmil)					
Cat. no.	**Concentric**	**Compact**	**Shroud I.D.**	**Comp. die size**	**L**	**Style**
⅝ Compression die series						
RSG 6-48	#6	–	0.400	⅝, 8A, 243, TU, 52, BG	3⅜	2
RSG 4-48	#4	#4	0.450	⅝, 8A, 243, TU, 52, BG	3⅜	2
RSG 2-48	#2, #1	#1	0.635	⅝, 8A, 243, TU, 52, BG	3⅝	1
RSG 1/0-48	1/0	2/0	0.640	⅝, 8A, 243, TU, 52, BG	3⅝	1
840 Compression die series						
RSK 1/0-48	1/0	2/0	0.640	840, 11A, 249, 76, TX	3¾	2
RSK 2/0-48	2/0	3/0	0.750	840, 11A, 249, 76, TX	3¾	2
RSK 3/0-48	3/0	4/0	0.750	840, 11A, 249, 76, TX	3¾	2
RSK 4/0-48	4/0	4/0	0.750	840, 11A, 249, 76, TX	3¾	2
RSK 250-48	4/0-250	350	0.812	840, 11A, 249, 76, TX	3¾	2
RSK 350-48	350	–	0.927	840, 11A, 249, 76, TX	4⁷⁄₁₆	1
1⅛ Compression die series						
RSB 300-48	300	300	0.927	1 (⅛-1), 12A, 96, 299, 655	4½	2
RSB 350-48	350	300	0.927	1 (⅛-1), 12A, 96, 299, 655	4½	2

Diagram



For tin-plated option, add "-TN" suffix to the catalogue number.
To order a terminal lug for a ⅜" stud, change a catalogue number's "-48" suffix (designating a ½-in. stud) to a "-38" suffix.
To order with hardware as kits, add "-TMH" suffix to the catalogue number.

Aluminum lugs

Tin-plated one-hole lugs

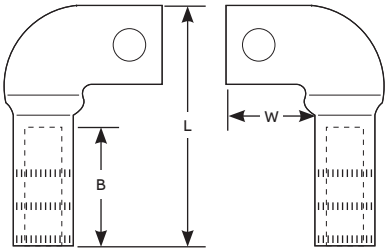
For application in meter pans and in other metal-enclosed gear to convenience wiring where clearances are minimal

- Assures high strength and high conductivity
- Provides resistance against corrosion
- Use with aluminum and copper conductors
- Prevents oxidation
- Easy identification
- Meets or exceeds ANSI C119.4 specifications

Tin-plated one-hole lugs

Left-hand lug Cat. no.	Right-hand lug Cat. no.	Conductor size (AWG or kcmil) Concentric	Compressed	Compact	Installing dies	Dimensions (in.) B	L	W
AL 1/0-48 LTN	AL 1/0-48 RTN	1/0	1/0	2/0	⅝, BG, TU	1⅜	2 11/16	1⅜
AL 2/0-48 LTN	AL 2/0-48 RTN	2/0	2/0	–	1⅝, 297, TW-TY	1⅜	2 11/16	1⅜
AL 3/0-48 LTN	AL 3/0-48 RTN	3/0	3/0	–	737, 467	1⅜	3¾	1⅜
AL 4/0-48 LTN	AL 4/0-48 RTN	4/0	4/0	–	840, 298, TX	1½	4	1¾
AL 250-48 LTN	AL 250-48 RTN	250	250	300	840, 324, TX	1⅝	4⅛	1¾
AL 300-48 LTN	AL 300-48 RTN	300	300	350	1, 470, TH	1⅝	4⅜	1½
AL 350-48 LTN	AL 350-48 RTN	350	350	350	1 (⅛-1), 299, 96	1⅝	4⅜	1½
AL 400-48 LTN	AL 400-48 RTN	400	400	400	1⅛, 472, 96	2½	5¾	1½
AL 500-48 LTN	AL 500-48 RTN	500	500	500	1 5/16, 300, 106A	2½	5¾	1½
AL 750-48 LTN	AL 750-48 RTN	700-750	800	800	1½, 301, 140H	3¼	6⅜	3½

Diagram



For NEMA-drilled lugs, substitute a "-NLTN" suffix for a "-48 x TN" suffix to the catalogue number.
Thus AL 350-48 RTN becomes AL 350-NLTN. NEMA drilling is 2 9/16" holes on 1¾" centers.

Aluminum lugs

Multi-range die-less lugs and pin terminals

AL 4/0 NTN

Save yourself a die job with these multi-range lugs

- Assures high strength and high conductivity
- Provides resistance against corrosion
- Use with aluminum and copper conductors
- Prevents oxidation
- Easy identification

Multi-range die-less lugs

Cat. no.	Conductor range (AWG or kcmil) alum. or copper	Tool	Figure	Bolt size	Dimensions (in.) B	L	P
AL 1/0-48 TN	#6 str.-1/0 str.	VC 5/VC 6	1	½	1⅜	3³⁄₁₆	1⁵⁄₁₆
AL 1/0 NTN	#6 str.-1/0 str.	VC 5/VC 6	2	½	1⅜	5¼	3¼
ASL 1/0 NTN	#6 str.-1/0 str.	VC 5/VC 6	3	½	1⅜	5¼	3
AL 4/0-48 TN	#2 str.-4/0 str.	VC 5/VC 6	1	½	1⁷⁄₁₆	3⁹⁄₁₆	1⅜
AL 4/0 NTN	#2 str.-4/0 str.	VC 5/VC 6	2	½	2	6	3⁵⁄₁₆
ASL 4/0 NTN	#2 str.-4/0 str.	VC 5/VC 6	3	½	2	6	3
AL 300-48 TN	1/0 str.-300	VC 6	1	½	2¼	4	1⁵⁄₁₆
AL 300 NTN	1/0 str.-300	VC 6	2	½	2¼	6⁹⁄₁₆	3⁹⁄₁₆
AASL 300 NTN	1/0 str.-300	VC 6	3	½	2¼	6⁹⁄₁₆	3
SAB 500-48 TN	4/0 str.-500	VC 6	1	½	2½	4⁹⁄₁₆	1½
SAB 500 NTN	4/0 str.-500	VC 6	2	½	2¼	6⅜	3⅛
AASL 500 NTN	4/0 str.-500	VC 6	3	½	2½	6⅞	2⅞
AL 750 N 608 TN	4/0 str.-750	VC 8	2	½	3¾	8¼	3⅜

Diagrams

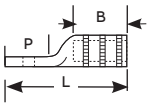


Fig. 1

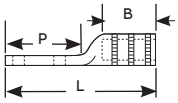


Fig. 2

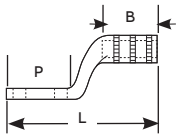


Fig. 3

To order a stud size not specified here with a terminal lug, substitute a "-58" suffix (designating a ⅝" stud) for a "-48" suffix (designating a ½" stud) to the catalogue number.

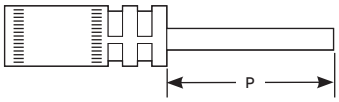
Pin terminals

The pins you need for hassle-free terminations

- The high strength and conductivity of aluminum and the flexibility of copper
- No compatibility

Cat. no.	Conductor size (AWG or kcmil)	Decimal range Min. O.D.	Max. O.D.	Tool	Cu pin	P
PTA 1/0	#10 sol.-1/0 ACSR	0.102	0.398	VC 5/6	#2	6
PTA 4/0	#4 sol.-4/0 ACSR	0.204	0.563	VC 5/6	2/0	6
PTA 350	2/0 str.-336.4 (18/1) ACSR	0.414	0.684	VC 6	4/0	6

Diagram



For tin-plated option, add "-TN" suffix to the catalogue number. For other pin lengths, please contact your ABB representative.

Aluminum lugs

Blackburn slotted-tang compression terminal lugs

Fig.1

Fig.2

Fig.3

Fig.4

Compress these lugs with standard tools and dies

- Use with a wide range of aluminum and copper conductors
- Prevents oxidation and keeps out moisture
- Boss fits the indent on the bus, preventing the lug from rotating
- The bus doesn't have to be removed
- RUS listed

Blackburn slotted-tang compression terminal lugs

		Conductor size (AWG or kcmil)				Installation dies	
Cat. no.	**Color code**	**Concentric**	**Compressed compact**	**Sol.**	**Fig. no.**	**Mech. tool**	**Hydr. tool**
LAC6	Blue	#6 str.	#6	#5	1	BY37, 840	B49EA, U-K840
LAC4	Orange	#4 str.	#4	#3.	1	BY37, 840	B49EA, U-K840
LAC3	Purple	#3 str.	–	#2	1	BY37, 840	B49EA, U-K840
LAC2	Red	#2 str.	#2	#1	1	BY37, 840	B49EA, U-K840
LAC1	White	#1 str.	#1	1/0	1	BY37, 840	B49EA, U-K840
LAC10	Yellow	1/0 str.	1/0	2/0	1	BY37, 840	B49EA, U-K840
LAC20	Grey	2/0 str.	2/0	3/0	2	BY37, 840U	B49EA, K840
LAC30	Black	3/0 str.	3/0	4/0	2	BY37, 840U	B49EA, K840
LAC40	Pink	4/0 str.	4/0	–	2	BY37, 840U	B49EA, K840
LAC42	Orange	#4 str.	#4	#3	2	BY37, 840U	B49EA, K840
LAC32	Purple	#3 str.	–	#2	2	BY37, 840U	B49EA, K840
LAC22	Red	#2 str.	#2	#1	2	BY37, 840U	B49EA, K840
LAC12	White	#1 str.	#1	1/0	2	BY37, 840U	B49EA, K840
LAC102	Yellow	1/0 str.	1/0	2/0	2	BY37, 840U	B49EA, K840
LAC202	Grey	2/0 str.	2/0	3/0	2	BY37, 840U	B49EA, K840
LAC302	Black	3/0 str.	3/0	4/0	2	BY37, 840U	B49EA, K840
LAC402	Pink	4/0 str.	4/0	–	2	BY37, 840U	B49EA, K840
LAC25	Green	350, 266.6	250	–	3	–	B80EA, 1.1, 655
LAC35	Brown	300, 350	350	–	3	–	B80EA, 1.1, 655
LAC50	Aqua	400, 500	500	–	3	–	B80EA, 1.1, 655
LAC125	Green	250, 266.8	250	–	4	–	B80EA, 1.1, 655
LAC135	Brown	300, 350	350	–	4	–	B80EA, 1.1, 655
LAC150	Aqua	400, 500	500	–	4	–	B80EA, 1.1, 655

Aluminum lugs

Bi-metallic lugs

CPL 2-48

CPL 600 N

Corrosion-resistant one- and two-hole lugs for ACSR and aluminum conductors

- Provides high strength
- Provides high conductivity and corrosion resistance
- Prevents oxidation and keeps out moisture

Bi-metallic lugs

	Conductor size (AWG or kcmil)		
Cat. no.	**ACSR**	**Al**	**Bolt size (in.)**
CPL series – One hole			
CPL 4-48	#4	#4	½
CPL 2-48	#2	#2	½
CPL 1/0-48	1/0	1/0	½
CPL 4/0-48	4/0	4/0	½
CPL-N series – Two hole			
CPL 4 N	#4	#4	½
CPL 2 N	#2	#2	½
CPL 1/0 N	1/0	1/0	½
CPL 2/0 N	2/0	2/0	½
CPL 3/0 N	3/0	3/0	½
CPL 4/0 N	4/0	4/0-250	½
CPL 300 N	266.8	266.8-300	½
CPL 350 N	336.4	336.4-350	½
CPL 477 N	397.5	396.5-477	½
CPL 556 N	477	500-556.5	½
CPL 600 N	556.5	600	½
CPL 800 N	605-666.6	715.5-800	½
CPL 1000 N	715.5-874.5	874.5-1,000	½
CPL 1113 N	900-1113	1,033.5-1,113	½
CPL 2000 N	1,780-1,900	2,000	½

Aluminum splices

CSA non-tension splices

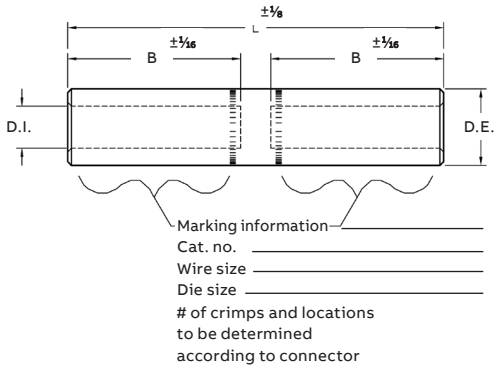
Compress these lugs with standard tools and dies

- Provides high strength and high conductivity
- Assures proper cable insertion
- Use with aluminum and copper conductors
- Prevents oxidation and keeps out moisture
- Easy identification
- Meets or exceeds ANSI C119.4 specifications

CSA non-tension splices

Cat. no.	Wire size (AWG or kcmil)	CSA die	O.D.	I.D.	Dimensions (in.) L	B
GLE 2	2 str.–Compr–CPT	22	0.635	0.340	2.00	0.96
GLE 1/0	1/0 str.–Compr–CPT	22	0.635	0.420	2.00	0.96
GLE 2/0	2/0 str. Compr–CPT	24	0.840	0.503	2.13	0.96
GLE 3/0	3/0 str.–Compr–CPT	24	0.840	0.547	2.75	1.31
GLE 4/0	4/0 str.–Compr–CPT	24–6T	0.840	0.594	2.75	1.31
GLE 250	250 str.–Compr–CPT	26	1.000	0.620	3.13	1.44
GLE 300	300 str.–Compr–CPT	26–12T	1.000	0.670	3.13	1.44
GLE 350	350 str.–Compr–CPT	28	1.189	0.730	4.00	1.88
GLE 500	500 str.–Compr–CPT	28–12T	1.189	0.835	4.00	1.88
GLE 500-30	500 str.–Compr–CPT	30-12T	1.438	0.880	4.50	2.13
GLE 750	750 str.–Compr–CPT	30	1.438	1.031	4.50	2.13

Diagram



Finish: Tin-plated optional, use suffix "TN".
Material: E.C. grade aluminum.
Connector bores are coated with HM 53 a oxide-inhibiting compound and capped.

Aluminum splices

Tin-plated straight splices for general applications

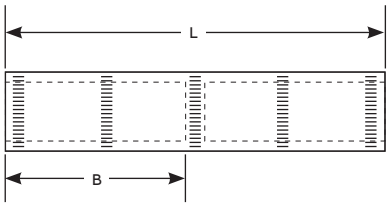
ASC 1000

- Provides high strength and high conductivity
- Assures proper cable insertion
- Use with aluminum and copper conductors
- Prevents oxidation and keeps out moisture
- Easy identification
- Meets or exceeds ANSI C119.4 specifications

Tin-plated straight splices for general applications

	Conductor range (AWG or kcmil)			Dimensions (in.)		
Cat. no.	**Concentric**	**Compact**	**ACSR**	**L**	**B**	**Installing dies**
ASC 6	#6	–	–	1⅝	¾	TP, 29, 161, 5/16
ASC 4	#4	–	–	2	1	TB, 37, 375, 162
ASC 2	#2	–	–	2	15/16	TQ, 45, 348, 163, ½, 6A
ASC 1	#1	–	–	2	15/16	TQ, 45, 348, 163, ½
ASC 1/0	1/0	–	–	2¼	31/32	TU, 52, BG, 243, ⅝
ASC 2/0	2/0	–	–	2 5/16	1 3/32	TW-TY, 58, 297, ⅝-1
ASC 3/0	3/0	–	–	2⅝	1¼	TV, 66, 167, 467, 10A
ASC 4/0	4/0	–	–	2¾	1 5/16	TX, 71H, 298, 840, 11A
ASC 250	4/0-250	300	4/0	2 15/16	1⅜	TX, 76, 249, 840, 11A
ASC 300	266.8-300	350	266.8 (18/1)	3⅛	1 7/16	TH, 87H, 251, 470, 1, 12A
ASC 350	336.4-350	400	266.8 (26/7), 336.4 (18/1)	3⅜	1 39/64	96, 299, 655, 1 (⅛-1), 13A
ASC 400	397.5-400	–	336.4 (26/7), 397.5 (18/1)	3¾	1¾	96, 472, 655, 1 (⅛-1), 13A
ASC 500	477-500	600	397.5 (26/7), 477 (18/1)	3⅞	1 27/32	106A, 300, 317, 1 5/16, 14A
ASC 600	550-600	–	477 (26/7), 556.5 (18/1)	4⅛	1 15/16	1 5/16, 115H, 786, 936, 473
ASC 750	700-750	–	636 (26/7)	4 11/16	2 7/32	140H, 301, 342, 1½
ASC 750-608*	700-750	–	636 (26/7)	4 11/16	2 7/32	125H, 608, 786, 1½, 936
ASC 800	800	–	–	4¾	2¼	140H, 342, 474, 1½
ASC 1000	954-1,000	–	795 (26/7), 954 (45/7)	5¼	2⅜	161, 292, 302, 319, 1¾
ASC 1250	1,250	–	–	8	3 11/16	161, 727, 352, 1⅞
ASC 1500	1,500	–	–	6½	3⅛	189, 478, 728

Diagram



* Not UL listed.
For tin-plated splices add "-TN" suffix to the catalogue number. Tin-plated splices with are UL listed through 1,000 kcmil.

Aluminum splices

Straight splices for general applications

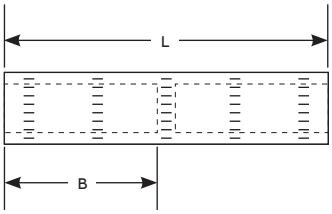
AC 1000

- Provides high strength and high conductivity
- Ensures proper cable insertion
- Use with aluminum and copper conductors
- Prevents oxidation and keeps out moisture
- Easy identification
- Meets or exceeds ANSI C119.4 specifications

Straight splices for general applications

	Conductor range (AWG or kcmil)			Dimensions (in.)		
Cat. no.	**Concentric**	**Compact**	**ACSR**	**L**	**B**	**Installing dies**
AC 4	#4	–	–	2¼	1	TB, 37, 375
AC 2	#2	–	–	3 15/32	1 37/64	TQ, 45, 348, 163, ½
AC 1	#1	–	–	3 15/32	1 37/64	TQ, 45, 348, 163, ½
AC 1/0	1/0	–	–	3 11/16	1 13/32	TU, 52, BG, 243, ⅝, 8A
AC 2/0	2/0	–	–	3 11/16	1 13/32	TU, 52, BG, 243, ⅝, 8A
AC 3/0	3/0	–	–	4	1¾	TV, 66, 167, 781, 247, 10A
AC 4/0	4/0	250	–	3¾	1¾	TX, 71H, 298, 840, 660, 11A
AC 250	4/0-250	–	4/0	5¼	2 5/16	TX, 76, 249, 840, 11A
AC 300	266.8-300	–	266.8 (18/1)	5¾	2 11/16	TH, 87H, 251, 840, 470, 12A
AC 350	336.4-350	–	266.8 (26/7), 336.4 (18/1)	6⅝	3⅛	96, 299, 655, 1 (⅛-1), 13A
AC 400	397.5-400	–	336.4 (26/7), 397.5 (18/1)	7 9/32	3½	96, 472, 655, 705, 1 (⅛-1), 13A
AC 500	477-500	600	397.5 (26/7, 30/7), 477 (18/1)	7 19/32	3 37/64	106A, 300, 317, 1 5/16, 14A
AC 600	600	–	477 (26/7), 556.5 (18/1)	7 27/32	3 47/64	1 5/16, 115H, 786, 936, 473
AC 750	700-750	–	636 (26/7)	8 9/32	3 31/32	140H, 301, 342, 1½
AC 800	750-800	–	636 (30/19), 715.5 (54/7)	8½	4 1/16	140H, 474, 342, 724, 1½H, 1⅝
AC 1000	954-1,000	–	795 (26/7), 954 (45/7)	9 15/16	4 9/32	161, 292, 302, 319, 1¾

Diagram



Aluminum splices

Straight reducing splices

AC 500 R 400

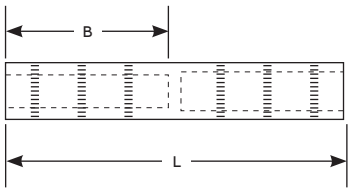
Solid center stop ensures proper cable insertion

- Provides high strength and high conductivity
- Use with aluminum and copper conductors
- Prevents oxidation
- Easy identification
- Meets or exceeds ANSI C119.4 specifications

Straight reducing splices

	Wire size (AWG or kcmil)		Dimensions (in.)		
Cat. no.	**From**	**To**	**L**	**B**	**Installing dies**
AC 2 R 4	#2	#4	4 9/16	1 7/8	TQ, 45, 348, 6A, 1/2
AC 1/0 R 2	1/0	#2	4 9/16	1 7/8	8A, BG, TU, 5/8
AC 2/0 R 1	2/0	#1	4 9/16	1 7/8	TWTY, 60, 245, 9A, 5/8, 1
AC 3/0 R 1/0	3/0	1/0	5	2	781, TU, 56
AC 4/0 R 2/0	4/0	2/0	5 1/4	2 1/8	TX, 71H, 298, 11A, 840
AC 250 R 3/0	250	3/0	5 1/4	2 1/8	840, 11A, 249, TX
AC 300 R 4/0	300	4/0	8 3/16	3 17/32	96, 299, 1 1/8
AC 350 R 4/0	350	4/0	8 3/16	3 17/32	96, 299, 1 1/8
AC 400 R 250	400	250	8 19/32	3 11/16	96, 472, 1 1/8
AC 500 R 300	500	300	8 19/32	3 13/16	106, 300, 317, 1 5/16
AC 500 R 350	500	350	8 11/16	3 13/16	106, 300, 317, 1 5/16
AC 500 R 400	500	400	8 7/8	3 13/16	106, 300, 317, 1 5/16
AC 600 R 350	600	350	8 7/8	3 15/16	115, 473, 1 5/16
AC 600 R 500	600	500	9 1/4	3 15/16	115, 473, 1 5/16
AC 750 R 500	750	500	9 5/8	4 7/32	140, 301, 1 1/2
AC 750 R 600	750	600	9 5/8	4 7/32	140, 301, 1 1/2
AC 1000 R 500	1,000	500	9 7/8	4 5/8	161, 302, 1 3/4
AC 1000 R 750	1,000	750	9 7/8	4 5/8	161, 302, 1 3/4

Diagram



For tin-plated option, add "-TN" suffix to the catalogue number.

Aluminum splices

Straight splices – Common die series

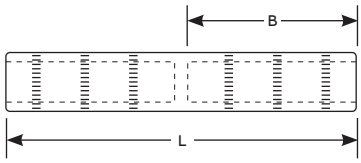
Splices designed for general URD applications

- Lessens your die inventory
- Provides high strength and high conductivity
- Assures proper cable insertion
- Use with aluminum and copper conductors
- Prevents oxidation
- Easy identification
- Meets or exceeds ANSI C119.4 specifications

Straight splices – Common die series

	Conductor range (AWG or kcmil)				Dimensions (in.)		
Cat. no.	**Concentric**	**Compressed**	**Compact**	**Solid**	**L**	**B**	**Installing dies**
SAC 4	#4	#4	#4	–	3	1 13/32	5/8, 8A, BG, TU, 52
SAC 2	#2	#2	#1, #2	#1	3	1 13/32	CSA 22, 5/8, 8A, BG
SAC 1	#1	#1	1/0	1/0	3	1 13/32	CSA 22, 5/8, 8A, BG
SAC 1/0	1/0	1/0	2/0	2/0	3	1 13/32	CSA 22, 5/8, 8A, BG
SAC 2/0	2/0	2/0	3/0	3/0	4	1 7/8	840, 249, TX, CSA 24
SAC 3/0	3/0	3/0	4/0	–	4	1 7/8	840, 249, TX, CSA 24, 845
SAC 4/0	4/0	4/0	4/0, 250	–	4	1 7/8	840, 249, TX, CSA 24, 845
SAC 250	250	250	–	–	4	1 7/8	840, 249, TX, CSA 24, 11A
SAC 300	300	300	–	–	5	2 3/8	96, 299, 655, 1 (1/8-1), 13A
SAC 350	350	350	–	–	5	2 3/8	96, 299, 655, 321, 1 (1/8-1), 13A
SAC 400	400	400	500	–	5 11/16	2 5/8	106A, 300, 317, 15A
SAC 500	477-500	–	600	–	5 11/16	2 5/8	106A, 300, 317, 1 5/16, 15A
SAC 600	600	–	–	–	7	3 3/8	1 1/2, 140, 301, 724
SAC 750	700-750	–	–	–	7	3 13/32	140H, 301, 342, 724, 1 1/2
SAC 1000	1,000	–	–	–	7	3 5/16	1 3/4, 161, 302, 292, 319

Diagram



Aluminum splices

Straight reducing splices – Common die series

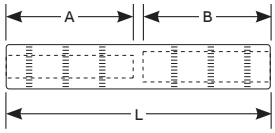
Reducers for general URD applications

- Lessens your die inventory
- Use with aluminum and copper conductors
- Prevents oxidation
- Easy identification
- Meets or exceeds ANSI C119.4 specifications

Straight reducing splices – Common die series

	Side A			Side B					
Cat. no.	**Concentric/ compressed**	**Compact**	**Solid**	**Concentric/ compressed**	**Compact**	**Solid**	**A-B (in.)**	**L (in.)**	**Installing dies**
SAC 4 R 6	#4	#4	–	#6	#6	–	1 7/16	3	CSA 22, 5/8, BG, 243
SAC 2 R 4	#2	#1, #2	#1	#4	#4		1 7/16	3	CSA 22, 5/8, BG, 243
SAC 1 R 2	#1	1/0	1/0	#2	#1, #2	#1	1 7/16	3	CSA 22, 5/8, BG, 243
SAC 1/0 R 4	1/0	2/0	2/0	#4	#4	–	1 7/16	3	CSA 22, 5/8, BG, 243
SAC 1/0 R 2	1/0	2/0	2/0	#2	#1, #2	#1	1 7/16	3	CSA 22, 5/8, BG, 243
SAC 1/0 R 1	1/0	2/0	2/0	#1	1/0	1/0	1 7/16	3	CSA 22, 5/8, BG, 243
SAC 2/0 R 2	2/0	3/0	3/0	#2	#1, #2	#1	1 7/8	4	840, 249, TX, CSA 24
SAC 2/0 R 1/0	2/0	3/0	3/0	1/0	2/0	2/0	1 7/8	4	840, 249, TX, CSA 24
SAC 3/0 R 1/0	3/0	4/0	–	1/0	2/0	2/0	1 7/8	4	840, 249, TX, CSA 24
SAC 3/0 R 2/0	3/0	4/0	–	2/0	3/0	3/0	1 7/8	4	840, 249, TX, CSA 24
SAC 4/0 R 2	4/0	250	–	#2	#1, #2	#1	1 7/8	4	840, 249, TX, CSA 24
SAC 4/0 R 1/0	4/0	250	–	1/0	2/0	2/0	1 7/8	4	840, 249, TX, CSA 24
SAC 4/0 R 2/0	4/0	250	–	2/0	3/0	3/0	1 7/8	4	840, 249, TX, CSA 24
SAC 250 R 3/0	250	–	–	3/0	4/0	–	1 7/8	4	840, 249, TX, CSA 24
SAC 250 R 4/0	250	–	–	4/0	250	–	1 7/8	4	840, 249, TX, CSA 24
SAC 300 R 250	300	–	–	4/0-250	–	–	2 3/8	5	96, 299, 655, 1 (1/8-1), 13A
SAC 350 R 2	350	–	–	#2	#1, #2	#1	2 3/8	5	96, 299, 655, 1 (1/8-1), 13A
SAC 350 R 1/0	350	–	–	1/0	2/0	2/0	2 3/8	5	96, 299, 655, 1 (1/8-1), 13A
SAC 350 R 2/0	350	–	–	2/0	3/0	3/0	2 3/8	5	96, 299, 655, 1 (1/8-1), 13A
SAC 350 R 3/0	350	–	–	3/0	4/0	–	2 3/8	5	96, 299, 655, 1 (1/8-1), 13A
SAC 350 R 4/0	350	–	–	4/0	250	–	2 3/8	5	96, 299, 655, 1 (1/8-1), 13A
SAC 350 R 250	350	–	–	250	–	–	2 3/8	5	96, 299, 655, 1 (1/8-1), 13A
SAC 500 R 2	500	–	–	#2	–	–	2 21/32	5 11/16	1 5/16, 15A, 300, 106, 317
SAC 500 R 1/0	500	–	–	1/0	–	–	2 21/32	5 11/16	1 5/16, 15A, 300, 106, 317
SAC 500 R 2/0	500	–	–	2/0	–	–	2 21/32	5 11/16	1 5/16, 15A, 300, 106, 317
SAC 500 R 3/0	500	–	–	3/0	–	–	2 21/32	5 11/16	1 5/16, 15A, 300, 106, 317
SAC 500 R 4/0	500	–	–	4/0	250	–	2 21/32	5 11/16	1 5/16, 15A, 300, 106, 317
SAC 500 R 300	500	–	–	300	–	–	2 21/32	5 11/16	1 5/16, 15A, 300, 106, 317
SAC 500 R 350	500	–	–	350	–	–	2 21/32	5 11/16	1 5/16, 15A, 300, 106, 317
SAC 500 R 400	500	–	–	400	–	–	2 21/32	5 11/16	1 5/16, 15A, 300, 106, 317
SAC 750 R 1/0	750	–	–	1/0	–	–	3	6 1/4	140H, 301, 342
SAC 750 R 4/0	750	–	–	4/0	250	–	3	6 1/4	140H, 301, 342
SAC 750 R 250	750	–	–	250	–	–	3	6 1/4	140H, 301, 342
SAC 750 R 350	750	–	–	350	–	–	3	6 1/4	140H, 301, 342
SAC 750 R 500	750	–	–	500	–	–	3	6 1/4	140H, 301, 342
SAC 1000 R 400	1,000	–	–	400	–	–	3 3/8	7	161, 302, 292, 319, 1-3/4
SAC 1000 R 500	1,000	–	–	500	–	–	3 3/8	7	161, 302, 292, 319, 1-3/4
SAC 1000 R 750	1,000	–	–	750	–	–	3 3/8	7	161, 302, 292, 319, 1-3/4

Diagram



For tin-plated option, add "-TN" suffix to the catalogue number.

Aluminum splices

Tin-plated straight splices – ⅝-in. Common die series

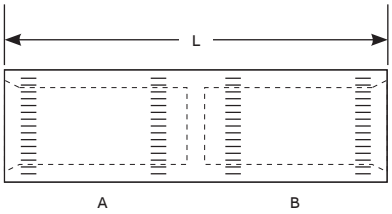
Built to resist corrosion and provide high strength and high conductivity

- Provides high strength and high conductivity
- Assures accurate wire positioning and forces oxide inhibitor over and through conductor strands
- Use with aluminum and copper conductors
- Resists corrosion and extends shelf life
- Improves contact and seals out moisture after installation
- Seal splices from contaminants
- Easy identification and installation
- Meets or exceeds ANSI C119.4 specifications

Tin-plated straight splices – ⅝-in. Common die series

	Wire size (AWG or kcmil)		Conductor			
Cat. no.	**A**	**B**	**A**	**B**	**Installing dies**	**L (in.)**
SG 88	#8	#8	Al-Cu	Al-Cu	⅝, 8A, BG, TU, 243	2
SG 68	#6	#8	Al-Cu	Al-Cu	⅝, 8A, BG, TU, 243	2
SG 66	#6	#6	Al-Cu	Al-Cu	⅝, 8A, BG, TU, 243	2
SG 48	#4	#8	Al-Cu	Al-Cu	⅝, 8A, BG, TU, 243	2
SG 46	#4	#6	Al-Cu	Al-Cu	⅝, 8A, BG, TU, 243	2
SG 44	#4	#4	Al-Cu	Al-Cu	⅝, 8A, BG, TU, 243	2
SG 24	#2	#4	Al-Cu	Al-Cu	⅝, 8A, BG, TU, 243	2
SG 22	#2	#2	Al-Cu	Al-Cu	⅝, 8A, BG, TU, 243	2
SG 11	#1	#1	Al-Cu	Al-Cu	⅝, 8A, BG, TU, 243	2
SG 106	1/0	#6	Al-Cu	Al-Cu	⅝, 8A, BG, TU, 243	2
SG 104	1/0	#4	Al-Cu	Al-Cu	⅝, 8A, BG, TU, 243	2
SG 102	1/0	#2	Al-Cu	Al-Cu	⅝, 8A, BG, TU, 243	2
SG 1010	1/0	1/0	Al-Cu	Al-Cu	⅝, 8A, BG, TU, 243	2
SG 206	2/0	#6	Al	Al	⅝, 8A, BG, TU, 243	2⅛
SG 204	2/0	#4	Al	Al	⅝, 8A, BG, TU, 243	2⅛
SG 202	2/0	#2	Al	Al	⅝, 8A, BG, TU, 243	2⅛
SG 2010	2/0	1/0	Al	Al	⅝, 8A, BG, TU, 243	2⅛
SG 2020	2/0	2/0	Al	Al	⅝, 8A, BG, TU, 243	2⅛

Diagram



Aluminum tapered tees

For aluminum and copper connections

AT 350-350

For aluminum and copper connections, these dual-rated components suit you to a tee

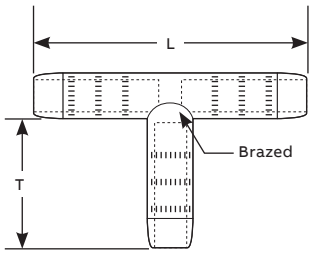
- Provides high strength and high conductivity
- Use with aluminum and copper conductors
- Prevents oxidation
- Easy identification
- Meets or exceeds ANSI C119.4 specifications

For aluminum and copper connections

	Conductor range (AWG or kcmil)		Dimensions (in.)	
Cat. no.	**Run**	**Tap**	**L**	**T**
AT 2-4	#2	#4	5½	2½
AT 2-2	#2	#2	5½	2½
AT 1/0-4	1/0	#4	5½	2½
AT 1/0-2	1/0	#2	5½	2½
AT 1/0-1/0	1/0	1/0	5½	2½
AT 2/0-2	2/0	#2	5½	2½
AT 2/0-1/0	2/0	1/0	6	2½
AT 2/0-2/0	2/0	2/0	6	2½
AT 3/0-2	3/0	#2	6	3
AT 3/0-1/0	3/0	1/0	6	3
AT 3/0-3/0	3/0	3/0	6	3
AT 4/0-2	4/0	#2	6	3
AT 4/0-1/0	4/0	1/0	6	3
AT 4/0-2/0	4/0	2/0	6	3
AT 4/0-4/0	4/0	4/0	6	3⅛
AT 250-2	250	#2	6	3⅛
AT 250-1/0	250	1/0	6	3⅛
AT 250-2/0	250	2/0	6	3⅛
AT 250-3/0	250	3/0	6	3⅛
AT 250-250	250	250	6	3⅛
AT 300-1/0	300	1/0	6⅝	3⅛
AT 300-2/0	300	2/0	6⅝	3⅛
AT 300-4/0	300	4/0	6⅝	3⅛
AT 300-300	300	300	6⅝	3⅛

	Conductor range (AWG or kcmil)		Dimensions (in.)	
Cat. no.	**Run**	**Tap**	**L**	**T**
AT 350-2	350	#2	6⅝	2½
AT 350-1/0	350	1/0	6⅝	2½
AT 350-3/0	350	3/0	6⅝	3
AT 350-4/0	350	4/0	6⅝	3
AT 350-350	350	350	6⅝	3⅛
AT 500-1/0	500	1/0	8	3
AT 500-4/0	500	4/0	8	3
AT 500-350	500	350	8	3⅛
AT 500-500	500	500	8	3⅛
AT 750-1/0	750	1/0	8	2½
AT 750-4/0	750	4/0	8	3
AT 750-350	750	350	8	3⅛
AT 750-500	750	500	9	3⅞
AT 750-750	750	750	9	3½
AT 1000-4/0	1,000	4/0	9⅞	3⅛
AT 1000-350	1,000	350	9⅞	3⅛
AT 1000-500	1,000	500	9⅞	5½
AT 1000-750	1,000	750	9⅞	7⅛
AT 1000-1000	1,000	1,000	9⅞	7⅛

Diagram



For tin-plated option, add "-TN" suffix to the catalogue number.
For other available sizes, please consult your ABB representative.

Aluminum tapered tees

For high-voltage applications

ATT 350-350

Tees available in many run and tap sizes for your high-voltage applications

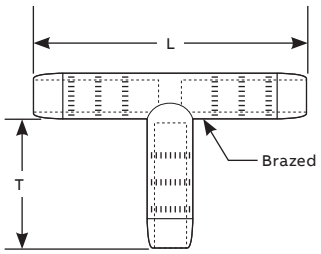
- Provides high strength and high conductivity
- Enable use in high-voltage applications up to 69 kV
- Use with aluminum and copper conductors
- Prevents oxidation
- Easy identification
- Meets or exceeds ANSI C119.4 specifications

For high-voltage applications

	Conductor range (AWG or kcmil)		Dimensions (in.)	
Cat. no.	**Run**	**Tap**	**L**	**T**
ATT 2-4	#2	#4	4¼	2½
ATT 2-2	#2	#2	4¼	2½
ATT 1/0-4	1/0	#4	5½	2½
ATT 1/0-2	1/0	#2	5½	2½
ATT 1/0-1/0	1/0	1/0	5½	2½
ATT 2/0-2	2/0	#2	6	2½
ATT 2/0-1/0	2/0	1/0	6	2½
ATT 2/0-2/0	2/0	2/0	6	2½
ATT 3/0-2	3/0	#2	6⅝	3
ATT 3/0-1/0	3/0	1/0	6⅝	3
ATT 3/0-3/0	3/0	3/0	6⅝	3
ATT 4/0-2	4/0	#2	6⅝	2½
ATT 4/0-1/0	4/0	1/0	6⅝	2½
ATT 4/0-2/0	4/0	2/0	6⅝	2½
ATT 4/0-4/0	4/0	4/0	6⅝	3
ATT 250-2	250	#2	6⅝	3
ATT 250-1/0	250	1/0	6⅝	3
ATT 250-2/0	250	2/0	6⅝	3
ATT 250-3/0	250	3/0	6⅝	3
ATT 250-250	250	250	6⅝	3
ATT 300-1/0	300	1/0	6⅝	3⅛
ATT 300-2/0	300	2/0	6⅝	3⅛
ATT 300-4/0	300	4/0	6⅝	3⅛
ATT 300-300	300	300	6⅝	3⅛

	Conductor range (AWG or kcmil)		Dimensions (in.)	
Cat. no.	**Run**	**Tap**	**L**	**T**
ATT 350-2	350	#2	6⅝	2½
ATT 350-1/0	350	1/0	6⅝	2½
ATT 350-3/0	350	3/0	6⅝	3
ATT 350-4/0	350	4/0	6⅝	3
ATT 350-350	350	350	6⅝	3¼
ATT 400-1/0	400	1/0	7¾	4
ATT 400-4/0	400	4/0	7¾	4
ATT 400-400	400	400	7¾	4
ATT 500-1/0	500	1/0	7¾	4
ATT 500-4/0	500	4/0	8	3
ATT 500-350	500	350	8	3⅛
ATT 500-500	500	500	8	5½
ATT 750-1/0	750	1/0	8	3
ATT 750-4/0	750	4/0	8	3
ATT 750-350	750	350	8	3⅛
ATT 750-500	750	500	9	5½
ATT 750-750	750	750	9	4
ATT 1000-4/0	1,000	4/0	9⅞	3⅛
ATT 1000-350	1,000	350	9⅞	3⅛
ATT 1000-500	1,000	500	9⅞	5½
ATT 1000-750	1,000	750	9⅞	6
ATT 1000-1000	1,000	1,000	9⅞	6
ATT 1500-1500	1,500	1,500	14	6

Diagram



For tin-plated option, add "-TN" suffix to the catalogue number.
For other available sizes, please consult your ABB representative.

Copper lugs

Copper tin-plated one-hole lugs

L 750-48

Tin-plated lugs resist corrosion

- Provides high conductivity
- Minimizes voltage drop
- Easy identification
- UL listed and CSA certified

Copper tin-plated one-hole lugs

Cat. no.	Wire size (AWG or kcmil)	Bolt size (in.)	Installing dies
L 8-10	#8	10	TC, 21, 171, 236
L 8-14		¼	
L 8-38		⅜	
L 8-48		½	
L 6-10	#6	10	7, TE, 24
L 6-14		¼	
L 6-516		5/16	
L 6-38		⅜	
L 4-14	#4	¼	
L 4-516		5/16	
L 4-38		⅜	
L 2-14	#2	¼	⅜, 10, TL-TN, 33, 162
L 2-516		5/16	
L 2-38		⅜	
L 2-48		½	
L 1-14	#1	¼	11, TB, 37
L 1-516		5/16	
L 1-38		⅜	
L 1-48		½	
L 1/0-516	1/0	5/16	½, 12, TQ, 42, 163
L 1/0-38		⅜	
L 1/0-48		½	
L 2/0-516	2/0	5/16	13, TS, 45, 164, 241
L 2/0-38		⅜	
L 2/0-48		½	

Cat. no.	Wire size (AWG or kcmil)	Bolt size (in.)	Installing dies
L 3/0-516	3/0	5-16	⅝, 14, TU, 50, 243, BG
L 3/0-38		⅜	
L 3/0-48		½	
L 4/0-516	4/0	5/16	15, TW-TY, 54, 243
L 4/0-38-HM		⅜	
L 4/0-48		½	
L 250-38	250	⅜	11/16, 16, TR, 60, 166
L 250-48		½	
L 300-38	300	⅜	781, 17, TV, 66
L 300-48		½	
L 300-58		⅝	
L 350-38	350	⅜	840, 18, TX, 71
L 350-48		½	
L 350-58		⅝	
L 400-48	400	½	840, 19, TX, 76
L 400-58		⅝	
L 500-48	500	½	20, TH, 87, 281
L 500-58		⅝	
L 600-48	600	½	1⅛-1, 96
L 600-58		⅝	
L 750-48	750	½	1⅛-2, 106
L 750-58		⅝	
L 750-68		¾	
L 1000-48	1000	½	642, 125
L 1000-58		⅝	
L 1000-68		¾	

Copper lugs

Tin-plated two-hole straight and stacking NEMA lugs for general applications

L 2/0 N

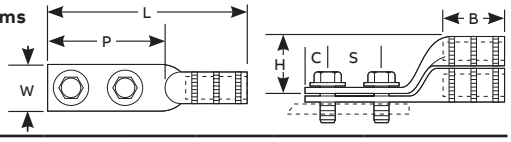
L 1000 NT

- Provides high conductivity
- Minimizes voltage drop
- Resists corrosion
- Provides ¾" and ⅞" bolt hole centers for added versatility
- UL listed and CSA certified

Tin-plated two-hole straight and stacking NEMA lugs for general applications

Straight lug Cat. no.	Stacking lug Cat. no.	Wire size (AWG or kcmil)	Bolt size (in.)	Installing dies	Dimensions (in.) B	C	L	P	S	W	H
L 6-214	–	#6	¼	7, TE, 27	1⅛	5/16	2 13/16	1 5/16	⅝	7/16	-
L 6-2516			5/16		1⅛	5/16	2 11/16	1 5/16	⅝	7/16	
L 6 N			½		1⅛	⅝	5	3⅛	1¾	¾	
L 4-214		#4	¼	5/16, 8, TP, 29, IC, 1	1⅛	5/16	2¾	1 5/16	⅝	½	
L 4-2516			5/16		1⅛	5/16	2¾	1 5/16	⅝	½	
L 4 N			½		1⅛	⅝	5	3⅛	1¾	¾	
L 2-214		#2	¼	⅜, 10, TL-TN, 33, 162	1¼	⅜	3⅛	1½	⅝	⅝	
L 2-2516			5/16		1¼	⅜	3 5/16	1⅝	¾ - ⅞	⅝	
L 2 N			½		1¼	⅝	4¾	3	1 5/16	¾	
L 1-214		#1	¼	⅜, 11, TB, 37	1⅜	⅜	3⅜	1⅝	⅝	11/16	
L 1-2516			5/16		1½	5/16	3⅜	1⅝	¾ - ⅞	11/16	
L 1 N			½		1½	⅝	4⅞	3	1¾	¾	
L 1/0-238		1/0	⅜	½, 12, TQ, 42, 163	1⅜		3 7/16	1⅝	⅞	¾	
L 1/0-2516			5/16		1⅜		3 7/16	1⅝	¾ - ⅞	¾	
L 1/0 N			½		1 7/16		4⅞	3	1¾	¾	
L 2/0-238		2/0	⅜	9/16, 13, TS, 45, 164	1½		5 1/16			⅞	
L 2/0 N	SL 2/0 N		½		1½		5 1/16			⅞	1½
L 3/0-238	–	3/0	⅜	⅝, 14, TU, 50, BG	1½		5⅛			15/16	-
L 3/0 N	SL 3/0 N		½		1½		5⅛			15/16	1⅝
L 4/0-238	–	4/0	⅜	⅝-1, 15, TW-TY, 54, 243	1⅝		5 3/16			11/16	-
L 4/0 N	SL 4/0 N		½		1⅝		5 3/16			11/16	1 9/16
L 250-238	–	250	⅜	11/16, 16, TR, 60, 116	1 11/16		5 3/16			1⅛	-
L 250 N	SL 250 N		½		1 11/16		5 7/16			1⅛	1 1/16
L 300-238	–	300	⅜	781, 17, TV, 66, 11/16	2		5¾			1¼	-
L 300 N	SL 300 N		½		2		5¾			1¼	1¾
L 350-238	–	350	⅜	840, 18, TX, 71	2		5¾			1 15/16	-
L 350 N	SL 350 N		½		1⅞		5¾			1 15/16	
L 400-238	–	400	⅜	15/16, 19, TX, 76, 840	2⅛		6	3 1/16		1 7/16	
L 400 N	SL 400 N		½		2⅛		6	3⅛		1 7/16	2⅛
L 500 N	SL 500 N	500	½	1, 20, TH, 87, 251	2¼		6 1/16	3⅛		1 9/16	
L 600 N	SL 600 N	600	½	1 (⅛-1), 22, 96	2⅝		6¾	3⅛		1 11/16	2 3/16
L 750 N	SL 750 N	750	½	1 5/16, 106, 24	2 13/16		7	3⅛		1¾	2⅝
L 1000 NT	SL 1000 NT	1000	½	27, 1½, 125	2 15/16		7¼	3¼		1¾	3
L 1250 N*	–	1250	½	150, 29, 1⅝	3		7⅜	3⅜		2 3/16	-
L 1500 N*		1500	½	1¾, 31, 150	3 3/16		7½	3		2 11/16	
L 2000 N*		2000	½	2.00, 34, 175	3 3/16		8 1/16	3 3/16		3 1/16	

Diagrams



The "N" suffix on the catalogue number indicates NEMA bolt spacing of 1¾". For other available sizes, please consult your ABB representative.
* L 1250 N, L 1500 N and L 2000 N are not UL listed or CSA certified.

Copper lugs

Tin-plated four-hole NEMA lugs

L 1500 4N

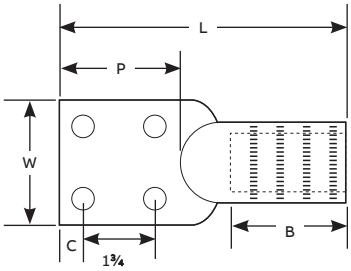
These four-hole NEMA lugs are great for a standard installation

- Resistance against corrosion
- Easy identification

Tin-plated four-hole NEMA lugs

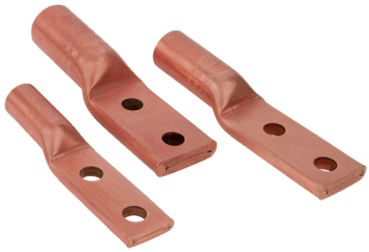
Cat. no.	Wire size (AWG or kcmil)	Bolt size (in.)	Installing dies	Dimensions (in.) B	C	L	P	W
L 750 4N	750	½	106, 21, 209, 1 5/16	4 3/8	5/8	8 7/8	3 3/16	3
L 1000 4N	1,000	½	786, 1½, 27, 125, 642	4 3/8	5/8	9 1/8	3 5/16	3
L 1500 4N	1,500	½	1¾, 31, 150, 302	3 3/16	5/8	7½	3	2 5/8
L 2000 4N	2,000	½	2.00, 34, 175	3 3/16	5/8	8 1/16	3 3/16	3 1/16

Diagram



Copper lugs

Heavy-duty two-hole NEMA lugs



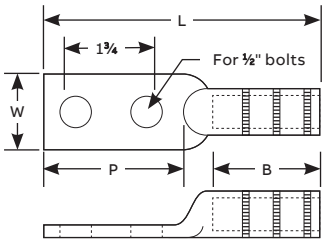
- Heavy-wall lugs for grounding and other critical applications
- Able to handle the most severe heavy-loading applications
- Ease cable insertion

Heavy-duty two-hole NEMA lugs

Meets **IEEE** 837 requirements

Cat. no.	Wire size (AWG or kcmil)	Installing dies*	Dimensions (in.) B	L	P	W
HDL 2 N	#2	15508SS	1½	5¼	3	13/16
HDL 1 N	#1	15526SS	1½	5¼	3	13/16
HDL 1/0 N	1/0	15530SS	1½	5¼	3	13/16
HDL 2/0 N	2/0	15507SS	1¾	5½	3	15/16
HDL 3/0 N	3/0	15532SS	1 11/16	5 3/16	3	1
HDL 4/0 N	4/0	15514SS	1¾	5⅝	3	1⅛
HDL 250 N	250	15517SS	1¾	5⅝	3	1¼
HDL 300 N	300	15506SS	2¼	5 13/16	3	1⅜
HDL 350 N	350	15503SS	2 5/16	6 9/16	3	1 9/16
HDL 500 N	500	15609SS	2⅝	6⅜	3	1¾
HDL 750 N**	750	Consultez votre représentant ABB.	3⅜	7 3/16	3	2 3/16
HDL 1000 N**	1,000	Consultez votre représentant ABB.	4⅝	9⅝	3⅝	2⅝

Diagram

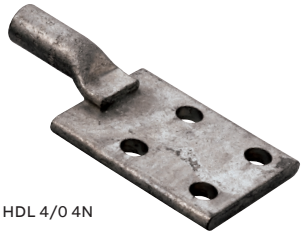


Note: For tin plating, add suffix "-TN" after the catalogue number.
For oxide-inhibiting compound, contact your ABB representative.
*These dies may be used with the TBM15CR-LI or TBM15I compression tools. Please note that the die adapter 15500-TB is required for use with these tools.

** Do not meet IEEE 837-2014 requirements.

Copper lugs

Copper heavy-duty four-hole NEMA lugs



HDL 4/0 4N

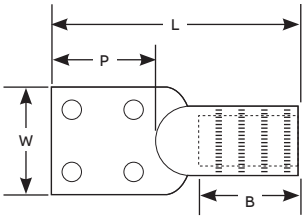
Heavy-wall lugs for grounding and other critical applications

- Able to handle the most severe heavy-loading applications
- Ease cable insertion

Copper heavy-duty four-hole NEMA lugs

Cat. no.	Wire size (AWG or kcmil)	Installing dies	Dimensions (in.) B	L	P	W
HDL 4/0 4N	4/0	71, 168, 840	1¾	4¾	3	3
HDL 350 4N	350	96, 267, 1 (⅛-1)	2 5/16	6 9/16	3	3
HDL 500 4N	500	112, 210, 1 5/16	3⅛	6⅜	3	3
HDL 750 4N	750	138, 627, 1⅝	3⅞	8¼	3	3

Diagram



For tin-plated option, add "-TN" suffix to the catalogue number.
For oxide-inhibiting compound, please consult your ABB representative.

Copper splices

Tin-plated straight splices

SC 1000

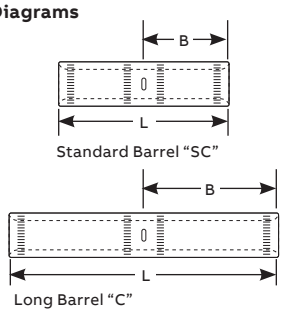
Made from electrolytic seamless copper tubing, these splices can handle your heavy-duty applications

- Equalizes cable insertion
- Resists corrosion
- Easy identification

Tin-plated straight splices

Standard barrel Cat. no.	Long barrel Cat. no.	Wire size (AWG or kcmil)	Standard barrel B (in.)	Standard barrel L (in.)	Long barrel B (in.)	Long barrel L (in.)	Installing dies
SC 8	C 8	#8	7/16	1 1/16	1 1/16	2 1/4	TC, 21, 236
SC 6	C 6	#6	13/16	1 3/4	1 1/8	2 3/8	TE, 24
SC 4	C 4	#4	13/16	1 3/4	1 1/8	2 3/8	5/16, 8, 29, 161, TP
SC 2	C 2-HM	#2	7/8	1 7/8	1 1/4	2 5/8	3/8, 10, TL-TN, 33, 162
SC 1-HM	C 1-HM	#1	7/8	1 7/8	1 3/8	2 7/8	11, TB, 37
SC 1/0	C 1/0	1/0	7/8	1 7/8	1 3/8	2 7/8	1/2, 12, TQ, 42, 163
SC 2/0-HM	C 2/0	2/0	15/16	2	1 1/2	3 1/8	9/16, 13, TS, 45, 164
SC 3/0	C 3/0	3/0	1	2 1/8	1 1/2	3 1/8	5/8, 14, TU, 50, 243, BG
SC 4/0	C 4/0	4/0	1	2 1/8	1 5/8	3 3/8	5/8-1, 15, TW-TY, 54
SC 250-HM	C 250-HM	250	1 1/16	2 1/4	1 5/8	3 3/8	11/16, 16, TR, 60, 166
SC 300	C 300-HM	300	1 1/16	2 1/4	2	4 1/8	17, 66, TV, 781
SC 350	C 350	350	1 1/8	2 3/8	2	4 1/8	840, 18, TX, 71, 168, 208
SC 400	C 400	400	1 3/16	2 1/2	2 1/8	4 3/8	15/16, 19, TX, 76, 840
SC 500	C 500-HM	500	1 3/8	2 7/8	2 1/4	4 5/8	1, 20, TH, 87, 251
SC 600	C 600-HM	600	1 3/8	2 7/8	2 11/16	5 1/2	1 (1/8-1), 22, 96
SC 750	C 750	750	1 5/8	3 3/8	2 7/8	5 7/8	1 1/8, 2, 24, 106
SC 1000-HM	C 1000	1,000	1 7/8	3 7/8	3	6 1/8	1 1/2, 27, 125, 642
SC 1500*	C 1500*	1,500	2	4 1/8	3 3/16	6 1/2	1 3/4, 31, 150
SC 2000*	C 2000*	2,000	2 1/4	4 5/8	3 7/16	7	2.00, 34, 175

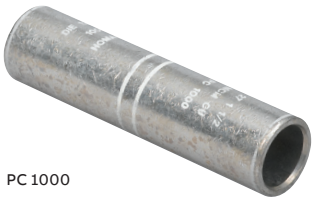
Diagrams



* SC 1500, SC 2000, C 1500 and C 2000 are not UL listed or CSA certified.

Copper splices

Tin-plated straight oil-stop splices



PC 1000

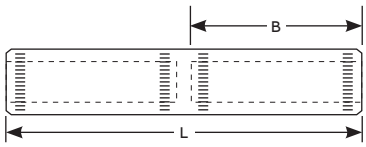
Electrolytic seamless copper tubing provides high conductivity and minimizes voltage drop

- Resists oil
- Resists corrosion

Tin-plated straight oil-stop splices

Cat. no.	Wire size (AWG or kcmil)	Installing dies	Dimensions (in.) B	Dimensions (in.) L
PC 6	#6	7, TE, 24	1⅛	2⅜
PC 4-HM	#4	5/16, 8, TP, 29, 161	1⅛	2⅜
PC 2-HM	#2	⅜, 10, TL-TN, 162	1¼	2⅝
PC 1-HM	#1	⅜, 11, TB, 37, 276	1⅜	2⅞
PC 1/0	1/0	½, 12, TQ, 42, 163	1⅜	2⅞
PC 2/0	2/0	9/16, 13, TS, 164, 45	1½	3⅛
PC 3/0	3/0	⅝, 14, TU, 243, BG 50	1½	3⅛
PC 4/0	4/0	54, ⅝-1, 15, TW-TY	1⅝	3⅜
PC 250-HM	250	11/16, 16, TR, 166, 60	1⅝	3⅜
PC 300	300	781, 17, 66, TV	2	4⅛
PC 350	350	71, 840, 18, TX, 168, 208	2	4⅛
PC 400	400	76, 15/16, 19, TX, 840	2⅛	4⅜
PC 500	500	251, 1, 20, TH 87	2¼	4⅝
PC 600-HM	600	1 (⅛)-1, 22, 96	2 11/16	5½
PC 750	750	1 5/16, 24, 106	2⅞	5⅞
PC 1000	1,000	1½, 27, 125, 642	3	6⅛

Diagram



Copper splices

Tin-plated tapered splices

TC 600

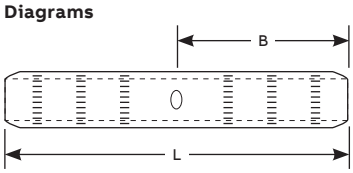
High-voltage, oil, harsh environments — these splices can handle it all

- Provides high conductivity, minimizes voltage drop
- Enable use in high-voltage installations up to 69 kV
- Resists corrosion and extends shelf life
- Equalizes cable insertions
- Resists oil

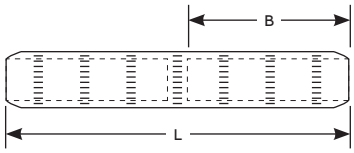
Tin-plated tapered splices

Dimpled center stop Cat. no.	Solid center oil stop Cat. no.	Wire size (AWG or kcmil)	Installing dies	Dimensions (in.) B	Dimensions (in.) L
TC 6	PTC 6	#6	7, TE, 24, 5/16	7/8	1 29/32
TC 4	PTC 4	#4	5/16, 8, TP, 29	7/8	1 29/32
TC 2	PTC 2	#2	3/8, 10, TL-TN, 33	31/32	2 1/16
TC 1	PTC 1	#1	3/8, 11, TB, 37	31/32	2 1/16
TC 1/0	PTC 1/0	1/0	1/2, 12, TQ, 42	31/32	2 1/16
TC 2/0	PTC 2/0	2/0	9/16, 13, TS, 45	1 1/32	2 7/32
TC 3/0	PTC 3/0	3/0	5/8, 14, TU, 50	1 1/8	2 13/32
TC 4/0	PTC 4/0	4/0	5/8-1, 15, TW-TY, 9A	1 1/8	2 3/8
TC 250	PTC 250	250	11/16, 16, TR, 60	1 7/32	2 9/16
TC 300	PTC 300	300	781, 17, 66, TV	1 1/4	2 5/8
TC 350-HM	PTC 350	350	840, 18, TX, 71	1 5/16	2 25/32
TC 400	PTC 400	400	840, 15/16, 19, TX, 76	1 7/16	2 31/32
TC 500	PTC 500	500	1, 20, TH, 87	1 11/16	3 17/32
TC 600	PTC 600	600	1 (1/8)-1, 22, 96	2 1/16	4 7/32
TC 750	PTC 750	750	1 5/16, 24, 106	2 1/16	4 7/32
TC 800	PTC 800	800	1 5/16, 2, 25	2 1/16	4 7/32
TC 1000	PTC 1000	1,000	1 1/2, 27, 125	2 1/4	5
TC 1500	PTC 1500	1,500	1 3/4, 31, 150	2 3/4	6
TC 2000	PTC 2000	2,000	2.00, 34, 175	3 1/8	6 3/4

Diagrams



"TC" Dimple style



"PTC" Solid center oil stop

Copper tees

Tin-plated tees

250 T 250

Tees available in many run and tap sizes for various copper conductors

- High conductivity, resistant to corrosion
- Easy identification

Tin-plated tees

	Conductor size (AWG or kcmil)	
Cat. no.	**Run**	**Tap**
2 T 2	#2	#2
1/0 T 6	1/0	#6
1/0 T 4	1/0	#4
1/0 T 2	1/0	#2
1/0 T 1	1/0	#1
1/0 T 1/0	1/0	1/0
2/0 T 6	2/0	#6
2/0 T 4	2/0	#4
2/0 T 2	2/0	#2
2/0 T 1	2/0	#1
2/0 T 1/0	2/0	1/0
2/0 T 2/0	2/0	2/0
3/0 T 1/0	3/0	1/0
3/0 T 3/0	3/0	3/0
4/0 T 2	4/0	#2
4/0 T 1	4/0	#1
4/0 T 1/0	4/0	1/0
4/0 T 2/0	4/0	2/0
4/0 T 4/0	4/0	4/0
250 T 2	250	#2
250 T 1	250	#1
250 T 1/0	250	1/0
250 T 2/0	250	2/0
250 T 4/0	250	4/0
250 T 250	250	250
300 T 300	300	300

	Conductor size (AWG or kcmil)	
Cat. no.	**Run**	**Tap**
350 T 1/0	350	1/0
350 T 2/0	350	2/0
350 T 4/0	350	4/0
350 T 350	350	350
400 T 1/0	400	1/0
400 T 2/0	400	2/0
400 T 4/0	400	4/0
400 T 250	400	250
400 T 300	400	300
400 T 350	400	350
400 T 400	400	400
500 T 1/0	500	1/0
500 T 2/0	500	2/0
500 T 4/0	500	4/0
500 T 250	500	250
500 T 350	500	350
500 T 400	500	400
500 T 500	500	500
600 T 2/0	600	2/0
600 T 4/0	600	4/0
600 T 350	600	350
600 T 500	600	500
600 T 600	600	600
750 T 350	750	350
750 T 500	750	500
750 T 750	750	750
1000 T 500	1,000	500
1000 T 1000	1,000	1,000

Copper tees

Tin-plated tapered tees

TT 350-350

Tappered ends enable use in high-voltage applications up to 69 kV

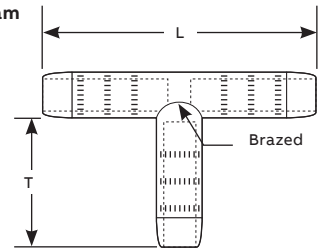
- Provides high conductivity
- Resists corrosion

Tin-plated tapered tees

			Dimensions (in.)	
Cat. no.	**Run**	**Tap**	**L**	**T**
TT 2-2	#2	#2	3 11/16	1½
TT 1/0-6	1/0	#6	3 3/16	1½
TT 1/0-4	1/0	#4	3 13/16	1½
TT 1/0-2	1/0	#2	3⅞	1½
TT 1/0-1	1/0	#1	3 15/16	1½
TT 1/0-1/0	1/0	1/0	4	1½
TT 2/0-6	2/0	#6	3 29/32	1½
TT 2/0-4	2/0	#4	3 31/32	1½
TT 2/0-2	2/0	#2	4 1/32	1½
TT 2/0-1	2/0	#1	4 3/32	1½
TT 2/0-1/0	2/0	1/0	4 5/32	1½
TT 2/0-2/0	2/0	2/0	4 5/32	1½
TT 3/0-1/0	3/0	1/0	4 7/16	1⅝
TT 3/0-3/0	3/0	3/0	4 7/16	1⅝
TT 4/0-2	4/0	#2	4 3/16	1¾
TT 4/0-1	4/0	#1	4 3/16	1¾
TT 4/0-1/0	4/0	1/0	4¼	1¾
TT 4/0-2/0	4/0	2/0	4 5/16	1¾
TT 4/0-4/0	4/0	4/0	4 7/16	1¾
TT 250-2	250	#2	4¼	1¾
TT 250-1	250	#1	4¼	1¾
TT 250-1/0	250	1/0	4 5/16	1¾
TT 250-2/0	250	2/0	4⅜	1¾
TT 250-4/0	250	4/0	4½	1¾
TT 250-250	250	250	4 9/16	1¾
TT 300-300	300	300	4 9/16	1¾

			Dimensions (in.)	
Cat. no.	**Run**	**Tap**	**L**	**T**
TT 350-1/0	350	1/0	5 37/64	2 13/16
TT 350-2/0	350	2/0	5 37/64	2 13/16
TT 350-4/0	350	4/0	5 23/32	2 13/16
TT 350-350	350	350	5 29/32	2 13/16
TT 400-1/0	400	1/0	5 21/32	2⅜
TT 400-2/0	400	2/0	5 21/32	2⅜
TT 400-4/0	400	4/0	5 25/32	2⅜
TT 400-250	400	250	5 27/32	2⅜
TT 400-300	400	300	5 29/32	2⅜
TT 400-400	400	400	6 1/32	2⅜
TT 500-1/0	500	1/0	6 23/64	2 19/32
TT 500-2/0	500	2/0	6 23/64	2 19/32
TT 500-4/0	500	4/0	6 15/32	2 19/32
TT 500-250	500	250	6 17/32	2 19/32
TT 500-350	500	350	6 21/32	2 19/32
TT 500-400	500	400	6 23/32	2 19/32
TT 500-500	500	500	6 23/32	2 19/32
TT 600-2/0	600	2/0	7 3/16	3 3/32
TT 600-4/0	600	4/0	7 7/16	3 3/32
TT 600-350	600	350	7 9/16	3 3/32
TT 600-500	600	500	7 11/16	3 3/32
TT 600-600	600	600	7⅞	3 3/32
TT 750-350	750	350	9½	4¼
TT 750-500	750	500	9½	4¼
TT 750-750	750	750	9½	4¼
TT 1000-500	1,000	500	9½	4¼
TT 1000-1000	1,000	1,000	9½	4¼

Diagram



For other available sizes, please consult your ABB representative.

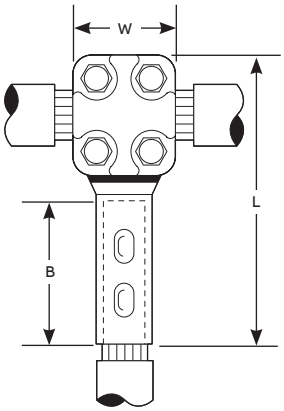
Copper tees

2131-20

- Provides high strength and high conductivity
- Resists corrosion

	Conductor size (AWG or kcmil)		Dimensions (in.)		
Cat. no.	**Run**	**Tap**	**B**	**L**	**W**
2131-1	750	2/0 str.	1½	4⅞	2¹⁄₁₆
2131-2	750	4/0 str.	1⅝	5	2¹⁄₁₆
2131-3	750	250	1⅝	5	2¹⁄₁₆
2131-4	750	350	2	5⅜	2¹⁄₁₆
2131-5	750	500	2¼	5⅜	2¹⁄₁₆
2131-6	750	750	2⅞	6¼	2¹⁄₁₆
2131-7	1,000	2/0 str.	1½	4⅞	2¹⁄₁₆
2131-8	1,000	4/0 str.	1⅝	5	2¹⁄₁₆
2131-9	1,000	250	1⅝	5	2¹⁄₁₆
2131-10	1,000	350	2	5⅜	2¹⁄₁₆
2131-11	1,000	500	2¼	5⅝	2¹⁄₁₆
2131-12	1,000	750	2⅞	6¼	2¹⁄₁₆
2131-13	1,000	1,000	3	6⅜	2¹⁄₁₆
2131-14	1,500	2/0 str.	1½	4⅞	2¹⁄₁₆
2131-15	1,500	4/0 str.	1⅝	5	2¹⁄₁₆
2131-16	1,500	250	1⅝	5	2¹⁄₁₆
2131-17	1,500	350	2	5⅜	2¹⁄₁₆
2131-18	1,500	500	2¼	5⅜	2¹⁄₁₆
2131-19	1,500	750	2⅞	6¼	2¹⁄₁₆
2131-20	1,500	1,000	3	6⅜	2¹⁄₁₆
2131-21	1,500	1,500	3³⁄₁₆	6⅞	2¹⁄₁₆
2131-22	1,500	2,000	3¼	8	2½

Diagram



Aluminum and copper lug tee taps

NEMA lug tee taps for cable buses

NLTT 1000

- Choose the taps that match your system
- Accommodate all sizes of standard NEMA drilled compression lugs
- Resists corrosion

NEMA lug tee taps for cable buses

Cat. no.	Main conductor	Figure number/Taps	Width (in.)
ANLTT 4/0	4/0	2	1½
ANLTT 350	350	2	1½
ANLTT 500	500	2	1½
ANLTT 750	750	2	1¾
ANLTT 1000	1,000	2	1¾
ANLTT 1500	1,500	2	2½
ANLT 4/0	4/0	1	1½
ANLT 350	350	1	1½
ANLT 500	500	1	1½
ANLT 750	750	1	1¾
ANLT 1000	1,000	1	1¾
ANLT 1500	1,500	1	2½

Cat. no.	Main conductor	Figure number/Taps	Width (in.)
NLTT 4/0	4/0	2	1½
NLTT 350	350	2	1½
NLTT 500	500	2	1½
NLTT 750	750	2	1¾
NLTT 1000	1,000	2	1¾
NLTT 1500	1,500	2	2½
NLT 4/0	4/0	1	1½
NLT 350	350	1	1½
NLT 500	500	1	1½
NLT 750	750	1	1¾
NLT 1000	1,000	1	1¾
NLT 1500	1,500	1	2½

Diagrams

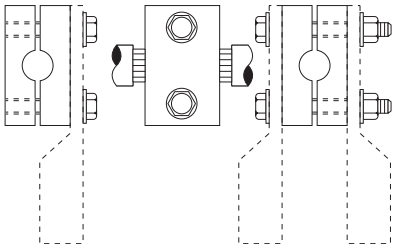


Figure 1 Figure 2

For sizes not listed, please consult your ABB representative.

Competitive cross reference

Type WR "O" and "D" – Die seven connector program					
Blackburn	**Penn Union**	**Burndy**	**Homac**	**Kearney**	**Anderson**
WR159	KO-R06	YHO100, YHO1	OB44	506-82	–
WR189	KO-R08	YHO150, YHO2	OB101	508-82	–
WR289	KD-R02	YHD200,YHD3	DB202	502-82	–
WR279	KD-R04	YHD300, YHD4	DB2020	504-82	–
WR379	KD-R03	YHD250, YHD5	DB404	503-82	–
WR399	KD-R05	YHD350, YHD6	DB4020	505-82	–
WR419	KD-R28	YHD400, YHD7	DB4040	507-82	–
Type WR – Supplemental "O" and "D" die seven connector program					
Blackburn	**Penn Union**	**Burndy**	**Homac**	**Kearney**	**Anderson**
WR149	KO-R33	YNO125	–	333-81	VCP44
WR179	KO-R08	YC25A2	–	325-81	–
WR199	KO-R08	YP26AU2	–	329-81	–
WR1010	–	YHO2-ONE	OB1010D	–	–
WR259	KD-R04	YC25A25	–	–	–
WR299	KD-R02	YHD200	–	–	–
WR219	KD-R26	–	–	326-81	–
WR239	–	–	–	–	–
WR229	KD-R30	–	–	–	–
WR269	KD-R27	–	–	–	–
WR319	–	–	–	–	–
WR339	KD-R96	–	–	–	–
WR359	KD-R49	–	–	349-81	–
WR369	KD-R94	–	–	394-81	–
WR389	KD-R95	–	–	395-8	–
Type WR – Wide range "N" die tap connectors for hydraulic tools, 12-ton and greater					
Blackburn	**Penn Union**	**Burndy**	**Homac**	**Kearney**	**Anderson**
WR715	KN-1	–	NB50040	–	–
WR775	–	YHN450	–	–	–
WR815	–	YHN500	–	–	–
WR835	KN-R2	–	–	–	–
WR875	–	–	–	–	–
WR885	–	YHN525	NB500	–	–
Type WR – Wide range "N" die tap connectors for hydraulic tools, 10-ton and greater					
Blackburn	**Penn Union**	**Burndy**	**Homac**	**Kearney**	**Anderson**
WR699	KN-0	–	–	480	–
WR719	–	–	–	481	–
WR739	KN-R2	YHN550	–	482-81	–
WR779	KN-4	YHN600	–	483	–
WR799	KN-R5	–	–	485-81	–
WR819	KN-R6	YC33R26	NB60020	486-81	NB60020
WR839	KN-R7	–	–	487-81	–
WR879	KN-8	–	–	488	–
WR889	–	–	–	–	–
Type WR – Wide range aluminum tap connectors "R" die seven connector program					
Blackburn	**Penn Union**	**Burndy**	**Homac**	**Kearney**	**Anderson**
WR909	KR-R03	YHR700	–	603-82	–
WR929	KR-R04	YHR750	ZB-954	604-82	–
WR949	KR-R05	YHR800	–	605-82	–
WR969	KR-R06	YHR850	ZB-954	606-82	–
WR989	KR-R07	YHR900	ZB-954	607-82	–
WR999	–	–	–	–	–

Competitive cross reference

Type WR – Street lighting compression connectors					
Blackburn	**Penn Union**	**Burndy**	**Homac**	**Kearney**	**Anderson**
WR9	KO-R22	YP2A9U	–	421-8	–
WR139	KO-R24	YPC26R8U	–	–	–
WR502	–	–	–	–	–
Type CF – Copper compression tap connectors					
Blackburn	**Penn Union**	**Burndy**	**Homac**	**Kearney**	**Anderson**
CF44-1	CDT-399-8	–	–	399-8	–
CFS44-1	CDT-301	–	–	–	–
CF22-1	CDT-398-8	–	–	398-8	–
CFS22-1	CDT-302	–	–	–	–
CF102-1	CDT-304-8	–	–	304-8	–
CF1010-1	CDT-303-8	–	–	303-8	–
CF202-1	–	–	–	–	–
CF2020-1	CDT-305-8	–	–	305-8	–
CF402-1	CDT-309-8	–	–	309-8	–
CF4010-1	CDT-308-8	–	–	308-8	–
CF4040-1	CDT-307-8	–	–	307-8	–
Type C – Compression connectors covers					
Blackburn	**Penn Union**	**Burndy**	**Homac**	**Kearney**	**Anderson**
C2BB	–	–	CO20B	48480	SEC-4
C5-BB	–	CCO	CO20B	601O	PTC-1
C7	–	CCD	CD40B	601D	PTC-2
C9	–	CCN	CN600B	–	–
C9L	–	CCNL	CN600B	–	–

Competitive cross reference

Color-coded compression connectors

Type CTL – Copper lugs, one-hole mount, short barrel

Blackburn	Penn Union	Burndy	Ilsco	ABB	Anderson	Dossert	Panduit	3M
CTL8-10	BLU-8S14	–	CRA-8	54104	–	–	–	–
CTL8-14	BLU-8S15	–	–	54130	–	–	–	–
CTL8-516	BLU-8S16	–	–	54131	–	–	–	–
CTL6-10	BLU-6S	YA6C	B131C	54134	VHCS-6-10/8	DPLS2-1-18	LCA6-10	30014
CTL6-14	BLU-6S1	YA6C-L1	B132C	54105	VHCS-6-14	DPLS2-1	LCA6-14	30015
CTL6-516	BLU-6S2	YA6C-L3	–	54135	VHCS-6-516	DPLS2-1-31	LCA6-56	30016
CTL6-38	–	–	–	–	–	–	–	–
CTL4-10	BLU-4S	YA4C-L1	B133C	54138	VHCS-4-10/8	DPLS4-1-18	LCA4-10	30018
CTL4-14	BLU-4S1	YA4C-L	B134C	54106	VHCS-4-14	DPLS4-1	LCA4-14	30019
CTL4-516	BLU-4S10	YA4C-L3	–	54139	VHCS-4-516	DPLS4-2	LCA4-56	–
CTL4-38	BLU-4S2	YA4CL4	–	54140	VHCS-4-38	DPLS4-1-38	LCA4-38	30021
CTL2-14	BLU-2S	YA2C-L2	CRA-2	54107	VHCS-2-14	DPLS6-1-125	LCA2-14	30022
CTL2-516	BLU-2S1	YA2C-L	CRB-2	54142	VHCS-2-516	DPLS6-1	LCA2-56	30023
CTL2-38	BLU-2S2	YA2C-L4	–	54143	VHCS-2-38	DPLS6-1-38	LCA2-38	30024
CTL2-12	–	–	–	–	–	–	–	–
CTL1-14	BLU-1S9	–	–	54108	VHCS-1-14	–	LCA1-14	–
CTL1-516	BLU-1S	YA1C-L	CRA-1	54147	VHCS-1-516	DPLS8-1	LCA1-56	30027
CTL1-38	BLU-1S1	YA1C-L4	–	54148	VHCS-1-38	DPLS8-2	LCA1-38	30028
CTL1-12	–	–	–	–	–	–	–	–
CTL10-516	BLU-1/0S	YA25-L	CRA-0	54153	VHCS-1/0-516	DPLS10-1	LCA1/0-56	30031
CTL10-38	BLU-1/0S1	YA25-L4	CRB-0	54109	VHCS-Y0-38	DPLS10-1-38	LCA1/0-38	30032
CTL10-12	–	–	–	–	–	–	–	–
CTL20-38	BLU-2/0S	YA26-L	CRA-2/0	54110	VHCS-2/0-38	DPLS31-1	LCA2/0-37	30036
CTL20-12	BLU-2/0S4	YA26-L6	–	54160	VHCS-2/0-12	–	LCA2/0-12	–
CTL30-38	BLU-3/0S	YA27-L4	CRA-3/0	54111	VHCS-3/0-38	DPLS17-1-38	LCA3/0-38	–
CTL30-12	BLU-3/0S1	YA27-L	CRB-3/0	54165	VHCS-3/0-12	DPLS17-1	LCA3/0-12	30041
CTL40-38	BLU-4/0S	YA28-L4	CRA-4/0	54112	VHCS-4/0-38	DPLS21-1-38	LCA4/0-38	–
CTL40-12	BLU-4/0S1	YA28-L	CRB-4/0	54170	VHCS-4/0-12	DPLS21-1	LCA4/0-12	30045
CTL250-12	BLU-025S	YA29-L	CRA-250	54113	VHCS-250-12	DPLS25-1	LCA250-12	–
CTL300-12	BLU-030S	YA30-L	CRA-300	54114	VHCS-300-12	DPLS30-1	LCA300-12	–
CTL350-12	BLU-035S	YA31-L	CRA-350	54115	VHCS-350-12	DPLS35-1	LCA350-12	–
CTL400-12	BLU-040S	YA32-L	CRA-400	54185	VHCS-400-12	–	–	–
CTL400-58	BLU-4/0S	YA32-L	–	–	–	–	–	–
CTL500-12	BLU-050S	YA34-L	CRA-500	54187	VHCS-500-12	–	LCA500-12	–
CTL500-58	–	–	–	–	–	–	LCA500-58-6	–
CTL600-58	–	YA36-L	CRA-600	–	–	–	–	–
CTL750-58	–	YA39-L	–	–	–	–	–	–
CTL1000-58	–	–	–	–	–	–	–	–

Competitive cross reference

Compression connectors

Type CTL – Copper lugs, two-hole mount, short barrel					
Blackburn	**Penn Union**	**Burndy**	**Ilsco**	**ABB**	**Anderson**
CTL6-214	–	YA6CL2TC14 , YA6C2L	–	54205	–
CTL4-214	–	–	–	54206	–
CTL2-2516	–	–	–	–	VHCS-2-516
CTL1-2516	–	–	–	54255	–
CTL10-2516	–	YA1C-2L	–	54260	–
CTL202	–	–	–	54265	–
CTL302	–	–	–	54270	–
CTL402	BLU-3/0D	YA27-2LN	CRA-4/0L2	54275	–
CTL2502	BLU-4/0D	YA28-2LN	CRA-350L2	54280	–
CTL3002	BLU-025D	YA29-2LN	CRA-300L2	54282	–
CTL3502	BLU-030D	YA30-2LN	CRA-350L2	–	–
CTL4002	BLU-035D	YA31-2LN	CRA-400L2	54286	VHCS-500-12BN,
CTL5002	BLU-040D	YA32-2LN	CRA-500L2	–	VHCS-500-12B
–	–	–	–	–	VHCS-600-38B
CTL6002-38	–	–	–	–	–
CTL6002-12	–	–	–	–	–
CTL7502	BLU-060D	–	CRA-750L2	54223	–
CTL10002	–	–	CRA-1000L2	54223	–
Type CTL – Copper lugs, one-hole mount, long barrel					
Blackburn	**Penn Union**	**Burndy**	**Ilsco**	**ABB**	**Anderson**
CTL8L-14	–	–	–	54930BE	–
CTL6L-14	BBLU-6S	CRB-6L	–	54905BE	–
CTL4L-14	BBLU-4S	CRB-4L	–	54906BE	–
CTL2L-516	BBLU-2S	–	–	54942BE	–
CTL1L-516	BBLU-1S	CRA-1L	–	54947BE	–
CTL10L-516	BBLU-1/0S	YA25	CRA-1/0L	–	–
CTL20L-38	BBLU-2/0S	YA26	CRA-2/0L	54910BE	–
CTL30L-12	BBLU-3/0S	YA27	CRB-3/0L	54965BE	–
CTL40L-12	BBLU-4/0S	YA28	CRB-4/0B	54970BE	–
CTL250L-12	BBLU-025S	–	CRA-250L	54913BE	–
CTL300L-12	BBLU-030S	YA30	CRA-300L	54914BE	–
CTL350L-12	BBLU-035S	YA31	CRA-350L	54915BE	–
CTL400L-58	BBLU-040S	YA32	CRA-400L	–	–
CTL500L-58	BBLU-050S	YA34	CRA-500L	–	–
CTL600L-58	BBLU-060S	YA36	CRA-600L	54920BE	–
CTL750L-58	BBLU-075S	YA39	CRA-750L	54923BE	–
CTL1000L-58	BBLU-100S	YA44	CRA-1000L	54928BE	–

Competitive cross reference

Type LCN – Copper lugs, two-hole mount, long barrel

Blackburn	Penn Union	Burndy	Ilsco	ABB	Homac	Kearney	Anderson	Dossert	Panduit	3M
LCN8-14	–	–	–	54850BE	–	–	–	–	–	–
LCN6-14	BBLU-6D	YA6C-2TC14	CRB-6L2	54852BE	–	–	–	–	–	–
LCN6-12	–	YA6C-2N	–	–	–	–	–	–	–	–
LCN4-14	BBLU-4D	YA4C-2TC14	CRB-4L2	54854BE	–	–	–	–	–	–
LCN4-12	–	YA4C-2N	CRC-4L2	–	–	–	–	–	–	–
LCN2-516	BBLU-2D	–	CRB-2L2	54856BE	–	–	–	–	–	–
LCN2-12	–	YA2C-2N	CRC-2L2	–	–	–	–	–	–	–
LCN1-516	BBLU-1D	–	CRA-1L2	54858BE	–	–	–	–	–	–
LCN1-12	–	YA1C-2N	–	–	–	–	–	–	–	–
LCN10	BBLU-1/0D	YA25-2	CRA-1/0L2	54860BE	–	–		DPL10-2	–	–
LCN20	BBLU-2/0D	YA26-2N	CRA-2/0L2	54862BE	–	–	VHCL-2/0-12BN	DPL13-2N	–	–
LCN30	BBLU-3/0D	YA27-2N	CRB-3/0L2	54864BE	–	–	VHCL-3/0-12BN	DPL17-2N	–	–
LCN40	BBLU-4/0D	YA28-2N	CRA-4/0L2	54866BE	–	–	VHCL-4/0-12BN	DPL21-2N	–	31145
LCN250	BBLU-025D	YA29-2N	CRA-250L2	54868BE	–	–	VHCL-250-12BN	DPL25-2N	–	31149
LCN300	BBLU-030D	YA32-2N	–	–	–	–	–	–	–	–
LCN350	BBLU-035D	YA31-2N	CRA-350L2	54872BE	–	–	VHCL-350-12BN	DPL35-2N	–	31156
LCN400	BBLU-040D	–	–	–	–	–	–	–	–	–
LCN500	BBLU-050D	YA34-2N	CRA-500L2	54876BE	–	–	VHCL-500-12BN	DPL50-2N	–	31166
LCN600	BBLU-0600D	–	–	–	–	–	–	–	–	–
LCN75	BBLU-075D	–	–	–	–	–	–	–	–	–
LCN99	BBLU-100D	–	–	–	–	–	–	–	–	–

Type CU – Copper splices, long barrel

Blackburn	Penn Union	Burndy	Ilsco	ABB	Homac	Kearney	Anderson	Dossert	Panduit	3M
CU8	–	YS8C	–	54804	–	–	–	–	–	–
CU6	BBCU-6	YS6C	LTL-6	54805	–	–	–	–	–	–
CU4	BBCU-4	YS4C	LTL-4	54806	–	–	–	–	–	–
CU2	BBCU-2	YS2C	LTL-2	54807	–	–	–	–	–	–
CU1	BBCU-1	YS1C	LTL-1	54809	–	–	–	–	–	–
CU10	BBCU-1/0	YS25	CTL-1/0	54809	C1/0	136700-010	VHS-1/0	DPC-10	SCL1/0	
CU20	BBCU-2/0	YS26	CTL-2/0	54810	C2/0	136700-020	VHS-2/0	DPC-13	SCL2/0	11006
CU30	BBCU-3/0	YS27	CTL-3/0	54811	–	–	VHS-3/0	DPC-17	SCL3/0	11007
CU40	BBCU-4/0	YS28	CTL-4/0	54812	C4/0	136700-040	VHS-4/0	DPC-21	SCL4/0	11008
CU250	BBCU-025	YS29	CTL-250	54813	C250	136700-250	VHS-250	DPC-25	SCL250	11009
CU300	BBCU-030	YS30	–	–	–	–	–	–	–	–
CU350	BBCU-035	YS31	CTL-350	54815	C350	–	VHS-350	DPC-35	SCL350	11011
CU400	BBCU-040	YS32	–	–	–	–	–	–	–	–
CU500	BBCU-050	YS34	CTL-500	54818	C500	136700-500	VHS-500	DPC-50	SCL500	11014
CU600	BBCU-060	YS36	–	–	–	–	–	–	–	–
CU750	BBCU-075	YS39	CTL-750	54823	C750	136700-750	VHS-750	DPC-75	SCL750	11019
CU1000	BBCU-100	YS44	CTL-1000	54828	C1000	136700-1000	VHS-1000	DPC-100	SCL1000	11024

Competitive cross reference

Type CSP – Copper splices, short barrel										
Blackburn	**Penn Union**	**Burndy**	**Ilsco**	**ABB**	**Homac**	**Kearney**	**Anderson**	**Dossert**	**Panduit**	**3M**
CSP8	BCU-8	–	CT-8	54504	–	–	–	–	SCS8	–
CSP6	BCU-6	YS6C-L	CT-6	54505	–	–	VHSS-6	DPCS-2	SCS6	10001
CSP4	BCU-4	YS4C-L	CT-4	54506	–	–	VHSS-4	DPCS-4	SCS4	10002
CSP2	BCU-2	YS2C-L	CT-2	54507	–	–	VHSS-2	DPCS-6	SCS2	10003
CSP1	BCU-1	YS1C-L	CT-1	54508	–	–	VHSS-1	DPCS-8	SCS1	10004
CSP10	BCU-1/0	YS25-L	CT-1/0	54509	–	–	VHSS-1/0	DPCS-10	SCS1/0	10005
CSP20	BCU-2/0	YS26-L	CT-2/0	54510	–	–	VHSS-2/0	DPCS-13	SCS2/0	10006
CSP30	BCU-3/0	YS27-L	CT-3/0	54511	–	–	VHSS-3/0	DPCS-17	SCS3/0	10007
CSP40	BCU-4/0	YS28-L	CT-4/0	54512	–	–	VHSS-4/0	DPCS-21	SCS4/0	10008
CSP250	BCU-025	YS29-L	CT-250	54513	–	–	VHSS-250	DPCS-25	SCS250	10009
CSP300	BCU-030	YS30-L	CT-300	54514	–	–	VHSS-300	DPCS-30	SCS300	10010
CSP350	BCU-035	YS31-L	CT-350	54515	–	–	VHSS-350	DPCS-35	SCS350	10011
CSP400	BCU-040	YS32-L	CT-400	54516	–	–	VHSS-400	DPCS-40	SCS400	–
CSP500	BCU-050	YS34-L	CT-500	54518	–	–	VHSS-500	DPCS-50	SCS500	10014
CSP600	–	–	–	–	–	–	–	–	–	–
CSP750	BCU-075	YS39-L	CT-750	54523	–	–	VHSS-750	DPCS-75	SCS750	10019
CSP1000	BCU-100	YS44-L	CT-1000	54528	–	–	VHSS-1000	DPCS-100	SCS1000	10024

Competitive cross reference

Type ATL – Aluminum lugs, one-hole										
Blackburn	**Penn Union**	**Burndy**	**Ilsco**	**ABB**	**Homac**	**Kearney**	**Anderson**	**Dossert**	**Panduit**	**3M**
ATL8-10	–	YA8CA1	ACN-8	60101	–	–	VACL-8-10	–	–	–
ATL8-14	BLUA-8S	YA8C-A3	ACL-8	60102	–	–	VACL-8-14	DPL-1-1-AA	–	–
ATL6-10	–	–	–	60106	–	–	VACL-6-10	–	–	–
ATL6-14	BLUA-6S	YA6C-A1	ACL-6	60107	–	–	VACL-6-14	DPL2-1-AA	LAA46-14	–
ATL6-38	–	–	–	–	–	–	–	–	–	–
ATL4-14	BLUA-4S3	YA4C-A1	ACL-4	60112	–	–	VACL-4-14	–	LAA4-14	–
ATL4-516	BLUA-4S2	YA4C-A3	ACN-4	60113	–	–	VACL-4-516	DPL-4-1-AA	LAA4-56	40020
ATL4-38	–	YA4CA6	–	–	–	–	VACL-4-38	–	LAA4-38	–
ATL2-14	BLUA-2S3	–	ACL-2	60116	–	–	VACL-2-14	–	LAA2-14	–
ATL2-516	BLUA-2S4	YA2C-A1	ACN-2	60117	–	–	VACL-2-516	–	LAA2-56	–
ATL2-38	BLUA-2S	YA2C-A3	–	60118	–	–	VACL-2-38	DPL-6-1-AA	LAA2-38	40024
ATL1-516	BLUA-1S3	–	–	60123	–	–	–	–	LAA1-56	–
ATL1-38	BLUA-1S	YA1C-A1	–	60124	–	–	VACL-1-38	DPL-8-1-AA	LAA1-38	40028
ATL10-516	BLUA-1/0S3	YA25-A1	ACN-1/0	60129	–	–	VACL-1/0-516		LAA1/0-56	–
ATL10-38	BLUA-1/0S	YA25-A3	ACL-1/0	60130	–	–	VACL-1/0-38	DPL-10-1-AA	LAA1/0-38	40032
ATL10-12	–	–	–	–	–	–	–	–	–	–
ATL20-38	BLUA-2/0S6	YA26-A6	ACL-2/0	60136	–	–	VACL-2/0-38	–	LAA2/0-38	–
ATL20-12	BLUA-2/0S	YA26-A1	ACN-2/0	60138	–	–	VACL-2/0-12	DPL-13-1-AA	LAA2/0-12	40037
ATL30-38	BLUA-3/0S2	YA27-A1	ACL-3/0	60142	–	–	VACL-3/0-38	–	LAA3/0-38	–
ATL30-12	BLUA-3/0S	YA27A3	ACN-3/0	60144	–	–	VACL-3/0-12	DPL-17-1-AA	LAA3/0-12	40041
ATL40-38	BLUA-4/0S2	YA28-A1	ACL-4/0	60148	–	–	VACL-4/0-38	–	LAA4/0-38	–
ATL40-12	BLUA-4/0S	YA28-A3	–	60150	–	–	VACL-4/0-12	DPL-21-1-AA	LAA4/0-12	40045
ATL250-12	BLUA-025S	YA29-A1	ACL-250	60156	–	–	VACL-250-12	–	LAA250-12	40049
ATL300-38	–	–	–	–	–	–	–	–	–	–
ATL300-12	–	–	–	–	–	–		–	–	–
ATL350-12	BLUA-035S	YA31A1	ACL-350	60166	–	–	VACL-350-12	–	LAA350-12	40056
ATL400-58	–	–	–	–	–	–	–	–	–	–
ATL500-12	BLUA-050S2	YA34A1	ACL-500	60171	–	–	VACL-500-12	–	LAA500-12	–
ATL500-58	–	–	–	–	–	–	–	–	–	–
ATL600-12	–	–	–	–	–	–	–	–	–	–
ATL750-12	–	–	–	–	–	–	–	–	–	–
ATL750-58	BLUA-075S1	YA39A3	ACL-750	60178	–	–	VACL-750-58	–	LAA750-58	40073
Type ATL – Aluminum lugs, two-hole										
Blackburn	**Penn Union**	**Burndy**	**Ilsco**	**ABB**	**–**	**–**	**Anderson**	**Dossert**	**Panduit**	**3M**
ATL102-38	BLUA-1/0D1	YA25A5	2ACL-1/0	60230	–	–	VACL-1/0-38B	–	LAB1/0-38	40132
ATL102	–	–	–	–	–	–	–	–	–	–
ATL202	BLUA-2/0D	YA26-A3	2ACL-2/0	60238	–	–	VACL-2/0-12BN	DPL-13-2N-AA	LAB2/0-12	40137
ATL302	BLUA-3/0D	YA27A5	2ACL-3/0	60244	–	–	VACL-3/0-12BN	DPL-17-2N-AA	LAB3/0-12	40141
ATL402	BLUA-4/0D	YA28-A5	2ACL-4/0	60250	–	–	VACL-4/0-12VN	DPL-21-2N-AA	LAB4/0-12	40145
ATL2502	BLUA-025D	YA29-A3	2ACL-250	60256	–	–	VACL-250-12BN	DPL-25-2N-AA	LAB250-12	–
ATL3002	–	–	–	–	–	–	–	–	–	
ATL3502	BLUA-035D	YA31-A1	2ACL-350	60267	–	–	VACL-350-12BN	DPL-35-2N-AA	LAB350-12	40156
ATL4002	–	–	–	–	–	–	–	–	–	–
ATL5002	BLUA-050D2	YA34A3	2ACL-750	60273	–	–	VACL-500-12BN	DPL-50-2N-AA	LAB500-12	40166
ATL6002	–	–	–	–	–	–	–	–	–	–
ATL7502	BLUA-075D1	YA39-A5	2ACL-750	60278	–	–	VACL-750-12BN	DPL-75-2N-AA	LAB750-12	40172

Conductor reference

Conductor diameter (in.)	ACSR or all aluminum	Rated breaking strength	Aluminum alloy (5005-6201)	Rated breaking strength	Compacted ACSR or all aluminum	Rated breaking strength	AWAC	Rated breaking strength	Copper or copperweld copper composite	Rated breaking strength
Bare conductor information AWG or kmcil										
0.162	#6, Solid	474.0	–	–	–	–	–	–	#6, Solid	1,280
0.169	–	–	–	–	#6, 7W	528	–	–	–	–
0.174	–	–	–	–	–	–	–	–	91 1/4 2D	1,743
0.179	–	–	–	–			–	–	8C	1,362
0.182	#5, Solid	597.7	–	–	#6, 6/1	1,170	–	–	#5, Solid	1,591
0.184	#6, 7W	560	–	–	–	–	–	–	#6, 7W	1,229
0.198	#6, 6/1	1,170	#6, 7W	555	–	–	–	–	–	–
0.199	–	–	–	–	–	–	–	–	8A	2,233
0.201	–	–	#6, 3W	915	–	–	–	–	–	–
0.202	–	–	–	–	–	–	–	–	#6, 3W	1,204
0.204	#4, Solid	–	–	–	–	–	–	–	#4, Solid	1,970
0.206	–	753.9	–	–	–	–	–	–	#5, 7W	1,542
0.213	–	–	–	–	#4, 7W	826	–	–	–	–
0.219	–	–	–	–	–	–	–	–	8D	3,256
0.223	#5, 6/1	1,460	–	–	–	–	–	–	7A	2,754
0.225	–	–	–	–	–	–	–	–	6C	2,143
0.226	–	–	–	–	–	–	–	–	#5, 3W	1,516
0.229	#3, Solid	929.9	–	–	#4, 6/1	1,830	–	–	#3, Solid	2,439
0.230	–	–	–	–	–	–	–	–	6A	2,585
0.232	#4, 7W	915	–	–	–	–	–	–	#4, 7W	1,938
0.236	–	–	–	–	#4, 7/1	2,288	–	–	–	–
0.245	–	–	–	–	–	–	#4, 6/1	1,783	–	–
0.246	–	–	–	–	–	–	–	–	7D	4,022
0.250	#4, 6/1	1,830	#4, 7W	875	–	–	–	–	–	–
0.257	#4, 7/1	2,290	–	–	–	–	–	–	–	–
0.258	#2, Solid	1,172.6	–	–	#3, 6/1	2,250	–	–	#2, Solid; 5A	3,003; 3,193
0.260	#3, 7W	1,100	–	–	–	–	–	–	#3, 7W	2,433
0.261	–	–	–	–	–	–	#4, 5/2	2,830	–	–
0.268	–	–	–	–	#2, 7W	1,266	–	–		
0.276	–	–	–	–	–	–			6D	4,942
0.281	#3, 6/1	2,250	–	–	–	–	#4, 4/3	4,305	–	–
0.286	–	–	–	–	–	–	–	–	#3, 3W	2,359
0.289	–	–	–	–	–	–	–	–	#1, Solid	3,688
0.290	–	–	–	–	#2, 6/1	2,790	–	–	4A	3,938
0.292	#2, 7W	1,340	–	–	–	–	–	–	#2, 7W	3,045
0.298	–	–	–	–	#2, 7/1	3,525	–	–	–	–
0.301	–	–	–	–	#1, 7W	1,537	–	–	–	–
0.307	–	–	–	–	–	–	#4, 3/4	6,325	–	–
0.308	–	–	–	–	–	–	–	–	2F	4,233
0.309	–	–	–	–	–	–	#2, 6/1	2,760	–	–
0.310	–	–	–	–	–	–	–	–	5D	6,035
0.316	#2, 6/1	2,790	32,7W	2,195	–	–	–	–	–	–
0.320	–	–	–	–	–	–	–	–	#2, 3W	2,913
0.325	#2, 7/1	3,525	–	–	–	–	–	–	1/0, Solid	4,517
0.326	–	–	–	–	#1, 6/1	3,480	–	–	5P	9,311
0.327	–	–	–	–	–	–	–	–	2G	5,626
0.328	#1, 7W	1,620	–	–	–	–	–	–	#1, 7W; 4N	3,804; 8,460

Conductor reference

Conductor diameter (in.)	ACSR or all aluminum	Rated breaking strength	Aluminum alloy (5005-6201)	Rated breaking strength	Compacted ACSR or all aluminum	Rated breaking strength	AWAC	Rated breaking strength	Copper or copperweld copper composite	Rated breaking strength
Bare conductor information AWG or kmcil (cont'd)										
0.330	–	–	–	–	–	–	#2, 5/2	4,436	–	–
0.332	#1, 19W	1,685	–	–	–	–	–	–	#1, 19W	3,899
0.338	–	–	–	–	1/0, 7W	1,865	–	–	–	–
0.340	–	–	–	–	1/0, 19W	2,090	#4, 2/5	9,314	–	–
0.346	–	–	–	–	–	–	–	–	1F	5,266
0.348	–	–	–	–	–	–	–	–	4D	7,340
0.349	–	–	–	–	–	–	–	–	2J	7,322
0.355	#1, 6/1	3,480	–	–	–	–	#2, 4/3	6,785	–	–
0.360	–	–	–	–	–	–	–	–	#1, 3W	3,620
0.365	–	–	–	–	1/0, 6/1	4,280	–	–	2/0, Solid	5,519
0.366	–	–	–	–	–	–	–	–	2A; 4P	5,876; 11,420
0.367	80, 8/1	5,200	–	–	–	–	–	–	1G	6,956
0.368	1/0, 7W	1,970	–	–	–	–	–	–	1/0, 7W; 3N	4,750; 10,390
0.372	–	–	–	–	–	–	–	–	1/0, 19W	4,901
0.373	1/0, 19W	2,090	–	–	–	–	–	–	–	9,730
0.377	–	–	–	–	–	–	–	–	2K	–
0.381	–	–	–	–	2/0, 7W	2,350	–	–	–	–
0.382	–	–	–	–	2/0, 19W	2,586	–	–	–	–
0.386	–	–	–	–	–	–	#2, 3/4	9,793	–	–
0.388	–	–	–	–	–	–	–	–	1/0F	6,536
0.390	–	–	–	–	–	–	1/0, 6/1	4,246	1/0, 12W	4,841
0.392	–	–	–	–	–	–	–	–	1J	9,000
0.398	1/0, 6/1	4,280	1/0,7W	3,405	–	–	–	–	–	–
0.410	–	–	–	–	2/0, 6/1	5,345	–	–	–	–
0.411	–	–	–	–	–	–	–	–	3P	13,910
0.412	–	–	–	–	–	–	–	–	1/0G	8,563
0.413	–	–	–	–	–	–	–	–	2N	12,680
0.414	2/0, 7W	2,485	–	–	–	–	–	–	2/0, 7W	5,927
0.416	–	–	–	–	–	–	1/0, 5/2	6,712	–	–
0.419	2/0, 19W	2,586	–	–	–	–	–	–	2/0, 19W	6,152
0.423	–	–	–	–	–	–	–	–	1K	11,900
0.426	–	–	–	–	3/0, 7W	2,845	–	–	–	–
0.428	–	–	–	–	3/0, 19W	3,200	–	–	–	–
0.429	–	–	–	–	–	–	–	–	–	–
0.436	–	–	–	–	–	–	–	–	2/0F	8,094
0.438	–	–	–	–	–	–	#2, 2/5	14,060	2/0, 12W	6,048
0.440	–	–	–	–	–	–	–	–	1/0J	10,970
0.447	2/0, 6/1	5,345	2/0, 7W	4,230	–	–	1/0, 4/3	10,020	–	–
0.461	101.8, 12/7	9,860	–	–	3/0, 6/1	6,675	–	–	–	–
0.462	–	–	–	–	–	–	–	–	2P	16,870
0.463			–	–	–	–	–	–	2/0G	10,510
0.464	3/0, 7W	3,005	–	–	–	–	–	–	3/0, 7W; IN	7,366; 15,410
0.467	–	–	–	–	–	–	2/0, 5/2	8,040	–	–
0.470	3/0, 19W	3,200	–	–	–	–	–	–	3/0, 19W	7,698
0.475	–	–	–	–	–	–	–	–	1/0K	14,490
0.480	–	–	–	–	4/0, 7W	3,590	–	–	–	–
0.481	110.8, 12/7	10,730	–	–	4/0, 19W	3,890	–	–	–	–
0.487	–	–	–	–	–	–	1/0, 3/4	14,006	–	–

Conductor reference

Conductor diameter (in.)	ACSR or all aluminum	Rated breaking strength	Aluminum alloy (5005-6201)	Rated breaking strength	Compacted ACSR or all aluminum	Rated breaking strength	AWAC	Rated breaking strength	Copper or copperweld copper composite	Rated breaking strength
Bare conductor information AWG or kmcil (cont'd)										
0.492	–	–	–	–	–	–	–	–	3/0, 12W	7,556
0.494	–	–	–	–	–	–	–	–	2/0J	13,430
0.502	3/0, 6/1	6,675	3/0, 7W	4,965	–	–	2/0, 4/3	12,000	–	–
0.517	–	–	–	–	4/0, 6/1	8,420	–	–	–	–
0.522	4/0, 7W	3,590	–	–	–	–	–	–	4/0, 7W	9,154
0.523	–	–	–	–	250, 19W	4,506	–	–	–	–
0.528	4/0, 19W	3,980	–	–	–	–	–	–	4/0, 19W	9,617
0.530	134.6, 12/7	12,920	–	–	–	–	–	–	–	–
0.534	–	–	–	–	–	–	–	–	2/0K	17,600
0.537	–	–	–	–	266.8, 7W	4,775	–	–	–	–
0.540	–	–	–	–	266.8, 19W	4,800	–	–	–	–
0.541	–	–	–	–	–	–	1/0, 2/5	20,030	–	–
0.550	–	–	–	–	–	–	–	–	4/0F	12,290
0.552	–	–	–	–	–	–	4/0, 6/1	7,685	4/0, 12W	9,483
0.559	–	–	–	–	266.8, 18/1	7,100	–	–	–	–
0.563	4/0, 6/1	8,420	4/0, 7W	6,265	–	–	–	–	–	–
0.571	–	–	–	–	–	–	–	–	4/0EK	15,370
0.573	–	–	–	–	300, 19W	5,301	–	–	–	–
0.574	250, 19W	–	–	–	–	–	–	–	250, 19W	11,360
0.575	250, 37W	4,860	–	–	–	–	4/0, 15/4	10,870	250, 37W	11,560
0.576	159, 12/7	15,200	–	–	–	–	–	–	–	–
0.583	–	–	–	–	–	–	–	–	4/0G	15,640
0.586	266.8, 7W	4,780	–	–	–	–	–	–	–	–
0.593	266.8, 19W	4,810	–	–	300, 18/1	7,990	–	–	–	–
0.594	266.8, 37W	–	–	–	–	–	–	–	–	–
0.600	–	–	–	–			–	–	250, 12W	11,130
0.603	–	–	–	–	336.4, 7W	5,885	–	–	–	–
0.607	176.9, 12/7	16,440	–	–	336.4, 19W	5,940	–	–	–	–
0.609	266.8, 18/1	7,100	–	–	–	–	–	–	–	–
0.613	–	–	–	–			–	–	4/0E	20,730
0.618	–	–	–	–	350, 19W	6,185	–	–	–	–
0.621	–	–	–	–	–	–	–	–	250EK	17,840
0.628	300, 19W	5,890	–	–	336.4, 18/1	8,950	–	–	300, 19W	13,510
0.630	300, 37W	5,830	–	–	–	–	–	–	300, 37W	13,870
0.631	190.8, 12/7	17,730	–	–	–	–	–	–	–	–
0.633	266.8, 6/7	9,645	–	–	–	–	–	–	–	–
0.642	266.8, 26/7	11,250	266.8, 19W	8,180	–	–	–	–	–	–
0.657	–	–	–	–	–	–	–	–	300, 12W	13,170
0.660	–	–	–	–	397.8, 19W	6,880	–	–	–	–
0.664	211.3, 12/7	19,640	–	–	–	–	–	–	–	–
0.666	336.4, 19W	5,945	–	–	–	–	–	–	250E	23,920
0.678	–	–	–	–	–	–	–	–	350, 19W	15,590
0.679	350, 19W	6,180	–	–	–	–	336.4, 18/1	8,650	–	–
0.680	300, 26/7	12,650	–	–	–	–	–	–	300EK	20,960
0.681	350, 37W	6,680	–	–	–	–	–	–	350, 37W	16,060
0.682	–	–	–	–	397.5, 18/1	10,040	–	–	–	–
0.684	336.4, 18/1	8,950	–	–	–	–	–	–	–	–
0.700	300, 30/7	15,430	–	–	–	–	–	–	–	–

Conductor reference

Conductor diameter (in.)	ACSR or all aluminum	Rated breaking strength	Aluminum alloy (5005-6201)	Rated breaking strength	Compacted ACSR or all aluminum	Rated breaking strength	AWAC	Rated breaking strength	Copper or copperweld copper composite	Rated breaking strength
Bare conductor information AWG or kmcil (cont'd)										
0.710	–	–	–	–	–	–	–	–	350, 12W	15,140
0.714	203.2, 16/19	27,500	–	–	–	–	–	–	–	–
0.721	336.4, 26/7	14,050	–	–	–	–	–	–	–	–
0.722	–	–	–	–	477, 19W	8,090	–	–	–	–
0.724	397.5, 19W	6,885	–	–	–	–	–	–	–	–
0.726	–	–	–	–	–	–	–	–	400, 19W	17,560
0.728	400, 37W	7,350	–	–	–	–	–	–	400, 37W	18,320
0.729	–	–	–	–	–	–	–	–	300E	27,770
0.735	–	–	–	–	–	–	–	–	350EK	23,850
0.739	–	–	–	–	500, 19W	8,480	–	–	–	–
0.741	336.4, 30/7	17,040	–	–	–	–	–	–	–	–
0.742	–	–	–	–	477, 18/1	11,870	–	–	–	–
0.743	397.5, 18/1	10,400	–	–	–	–	–	–	–	–
0.770	–	–	–	–	–	–	–	–	450, 19W	19,750
0.772	450, 37W	8,110	–	–	–	–	–	–	450, 37W	20,450
0.780	–	–	–	–	556, 19W	9,440	–	–	–	–
0.782	–	–	397.5, 19W	11,840	–	–	–	–	–	–
0.783	397.5, 26/7	16,190	–	–	–	–	–	–	–	–
0.788	–	–	–	–	–	–	–	–	350E	32,420
0.793	477, 19W	8,090	–	–	–	–	–	–	–	–
0.795	477, 37W	8,600	–	–	–	–	–	–	–	–
0.801	–	–	–	–	556.5, 18/1	13,850	–	–	–	–
0.806	397.5, 30/7	19.980	–	–	–	–	–	–	–	–
0.811	500, 19W	9,425	–	–	–	–	–	–	500, 19W	21,950
0.813	500, 37W	9,010	–	–	–	–	–	–	500, 37W	22,510
0.814	477, 18/1	12,300	–	–	–	–	–	–	–	–
0.834	–	–	–	–	636, 19W	10,790	–	–	–	–
0.846	477, 24/7	17,200	–	–	–	–	–	–	–	–
0.853	–	–	–	–	–	–	–	–	550, 37W	24,760
0.855	500, 61W	10,490	–	–	–	–	–	–	550, 61W	25,230
0.856	556, 19W	9,440	–	–	–	–	–	–	–	–
0.858	477, 26/7 556.5, 37/W	19,430 9,835	477, 19W	13,450	–	–	–	–	–	–
0.862	–	–	–	–	636, 18/1	15,830	–	–	–	–
0.879	556.5, 18/1	14,300	–	–	–	–	–	–	–	–
0.883	477, 30/7	23,300	–	–	–	–	–	–	–	–
0.891	–	–	–	–	–	–	–	–	600, 37W	27,020
0.893	600, 61W	11,450	–	–	–	–	–	–	600, 61W	27,530
0.904	500, 30/7	24,450	–	–	–	–	–	–	–	–
0.914	556.5, 24/7	9,925	–	–	–	–	–	–	–	–
0.918	636,37W	11,240	–	–	–	–	–	–	–	–
0.927	556.5, 26/7	19,850	556.5, 19W	15,680	–	–	–	–	–	–
0.928	–	–	–	–	–	–	–	–	650, 37W	29,130
0.929	650, 61W	11,940	–	–	–	–	–	–	650, 61W	29,770
0.932	–	–	–	–	795, 19W	16,540	–	–	–	–
0.940	636, 18/1	16,400	–	–	–	–	–	–	–	–

Conductor reference

Conductor diameter (in.)	ACSR or all aluminum	Rated breaking strength	Aluminum alloy (5005-6201)	Rated breaking strength	Compacted ACSR or all aluminum	Rated breaking strength	AWAC	Rated breaking strength	Copper or copperweld copper composite	Rated breaking strength
Bare conductor information AWG or kmcil (cont'd)										
0.953	556.5, 30/7	27,200	–	–	–	–	–	–	–	–
0.953	605, 24/7	21,500	–	–	–	–	–	–	–	–
0.953	605, 54/7	22,500	–	–	–	–	–	–	700, 37W	31,170
0.962	–	–	–	–	–	–	–	–	700, 61W	31,820
0.964	700, 61W	12,860	–	–	–	–	–	–	–	–
0.966	605, 26/7	24,100	–	–	–	–	–	–	–	–
0.974	715.5, 37W	12,640	–	–	–	–	–	–	–	–
0.975	715.5, 61W	13,150	–	–	–	–	–	–	–	–
0.977	636, 24/7	22,600	–	–	–	–	–	–	–	–
0.977	636, 54/7	23,600	–	–	–	–	–	–	–	–
0.981	–	–	–	–	874.5, 37W	14,830	–	–	–	–
0.990	636, 26/7	25,000	636, 37W	19,110	–	–	–	–	–	–
0.994	605, 30/19	30,000	–	–	874.5, 36/1	17,900	–	–	–	–
0.997	750, 37W	14,430	–	–	–	–	–	–	750, 37W	33,400
0.998	750, 61W	13,510	–	–	–	–	–	–	750, 61W	34,090
1.000	666.6, 24/7	23,700	–	–	–	–	–	–	–	–
1.000	666.6, 54/7	24,500	–	–	–	–	–	–	–	–
1.019	636, 30/19	30,500	–	–	–	–	–	–	–	–
1.024	–	–	–	–	954, 37W	16,180	–	–	–	–
1.026	795, 37W	13,770	–	–	–	–	–	–	–	–
1.028	795, 61W	14,330	–	–	–	–	–	–	–	–
1.029	–	–	–	–	–	–	–	–	800, 37W	35,120
1.031	800, 61W	14,410	–	–	–	–	–	–	800, 61W	36,360
1.039	–	–	–	–	954, 36/1	19,520	–	–	–	–
1.040	795, 36/1	10,000	–	–	–	–	–	–	–	–
1.051	715.5, 26/7	28,100	–	–	–	–	–	–	–	–
1.061	–	–	–	–	–	–	–	–	850, 37W	37,310
1.062	–	–	–	–	–	–	–	–	850, 61W	38,270
1.063	795, 45/7	22,900	–	–	–	–	–	–	–	–
1.077	874.5, 37W	14,840	–	–	–	–	–	–	–	–
1.078	874.5, 61W	15,760	–	–	–	–	–	–	–	–
1.081	715.5, 30/19	34,600	–	–	–	–	–	–	–	–
1.092	–	–	–	–	–	–	–	–	900, 37W	39,510
1.093	795, 54/7	28,500	–	–	–	–	–	–	–	–
1.094	900, 61W	15,900	–	–	–	–	–	–	900, 61W	40,520
1.108	795, 26/7	31,200	795, 37W	23,590	–	–	–	–	–	–
1.124	954, 37W	16,180	–	–	–	–	–	–	–	–
1.126	954, 61W	16,860	–	–	–	–	–	–	–	–
1.140	795, 30/19	38,400	–	–	–	–	–	–	–	–
1.146	874.5, 54/7	31,400	–	–	–	–	–	–	–	–
1.151	1,000, 37W	–	–	–	–	–	–	–	1,000, 37W	43,830
1.152	1,000, 61W	17,670	–	–	–	–	–	–	1,000, 61W	45,030
1.162	900, 54/7	32,300	–	–	–	–	–	–	–	–
1.165	954, 45/7	26,900	–	–	–	–	–	–	–	–
1.170	1,033.5, 37W	17,530	–	–	–	–	–	–	–	–
1.172	1,033.5, 61W	18,260	–	–	–	–	–	–	–	–
1.196	954, 54/7	34,200	–	–	–	–	–	–	–	–
1.213	1,033.5, 45/7	28,900	–	–	–	–	–	–	–	–

Conductor reference

Conductor diameter (in.)	ACSR or all aluminum	Rated breaking strength	Aluminum alloy (5005-6201)	Rated breaking strength	Compacted ACSR or all aluminum	Rated breaking strength	AWAC	Rated breaking strength	Copper or copperweld copper composite	Rated breaking strength
Bare conductor information AWG or kmcil (cont'd)										
1.216	1,113, 61W	19,670	–	–	–	–	–	–	–	–
1.246	1,033.5, 54/7	37,100	–	–	–	–	–	–	–	–
1.258	1,192.5, 61W	21,070	–	–	–	–	–	–	–	–
1.259	1,113, 45/7	30,900	–	–	–	–	–	–	–	–
1.288	–	–	–	–	1,468, 36/1	30,000	–	–	–	–
1.293	1,113, 54/19	40,200	–	–	–	–	–	–	–	–
1.300	1,272, 61W	22,030	–	–	–	–	–	–	–	–
1.302	1,192.5, 45/7	33,200	–	–	–	–	–	–	–	–
1.333	1,192.5, 54/19	43,100	–	–	–	–	–	–	–	–
1.340	1,351.5, 61W	23,400	–	–	–	–	–	–	–	–
1.345	1,272, 45/7	35,400	–	–	–	–	–	–	–	–
1.379	1,431, 61W	23,400	–	–	–	–	–	–	–	–
1.382	1,272, 54/19	44,800	–	–	–	–	–	–	–	–
1.417	1,510.5, 61W	25,630	–	–	–	–	–	–	–	–
1.424	1,351.5, 54/19	47,600	–	–	–	–	–	–	–	–
1.427	1,431, 45/7	39,800	–	–	–	–	–	–	–	–
1.443	1,431, 54/19 1,590, 61W	50,400 26,970	–	–	–	–	–	–	–	–
1.454	1,590, 91W	28,100	–	–	–	–	–	–	–	–
1.465	1,431, 54/19	50,400	–	–	–	–	–	–	–	–
1.504	1,590, 45/7	43,800	–	–	–	–	–	–	–	–
1.506	1,510.5, 54/19	53,300	–	–	–	–	–	–	–	–
1.545	1,590, 54/19	56,000	–	–	–	–	–	–	–	–
1.602	1,780, 84/19	53,600	–	–	–	–	–	–	–	–
1.630	2,000, 91W	34,640	–	–	–	–	–	–	–	–
1.823	2,500, 91W	42,410	–	–	–	–	–	–	–	–
1.996	3,000, 127W	50,890	–	–	–	–	–	–	–	–
2.158	3,500, 127W	59,380	–	–	–	–	–	–	–	–

Conductor reference

Circular mils Typical	AWG size	Metric wire size mm²	Equivalent circular mils	Stranding/wire diameter per standard in.	Stranding/wire diameter per standard mm	Approximate overall diameter in.	Approximate overall diameter mm
AWG/kcmil vs. metric wire sizes — option 1							
–	–	0.50	987	1/0.032	1/0.813	0.032	0.81
1,020	20	–	–	7/0.0121	7/0.307	0.036	0.91
–	–	0.75	1,480	1/0.039	1/0.991	0.039	0.99
1,620	18	–	–	1/0.0403	1/1.02	0.040	1.02
1,620	18	–	–	7/0.0152	7/0.386	0.046	1.16
–	–	1.0	1,974	1/0.045	1/1.14	0.045	1.14
–	–	1.0	1,974	7/0.017	7/0.432	0.051	1.30
2,580	16	–	–	1/0.0508	1/1.29	0.051	1.29
2,580	16	–	–	7/0.0192	7/0.488	0.058	.46
–	–	1.5	2,960	1/0.055	1/1.40	0.055	1.40
–	–	1.5	2,960	7/0.021	7/5.33	0.063	1.60
4,110	14	–	–	1/0.0641	1/1.63	0.064	1.63
4,110	14	–	–	7/0.0242	7/0.615	0.073	1.84
–	–	2.5	4,934	1/0.071	1/1.80	0.071	1.80
–	–	2.5	4,934	7/0.027	7/0.686	0.081	2.03
6,530	12	–	–	1/0.0808	1/2.05	0.081	2.05
6,530	12	–	–	7/0.0305	7/0.775	0.092	2.32
–	–	4	7,894	1/0.089	1/2.26	0.089	2.26
–	–	4	7,894	7/0.34	7/0.864	0.102	2.59
10,380	10	–	–	1/0.1019	1/2.59	0.102	2.59
10,380	10	–	–	7/0.0385	7/0.978	0.116	2.93
–	–	6	11,840	1/0.109	1/2.77	0.109	2.77
–		6	11,840	7/0.042	7/0.107	0.126	3.21
13,090	9	–	–	1/0.1144	1/2.91	0.1144	2.91
13,090	9	–	–	7/0.0432	7/1.10	0.130	3.30
16,510	8	–	–	1/0.1285	1/3.26	0.128	3.26
16,510	8	–	–	7/0.0486	7/1.23	0.149	3.0
–	–	10	19,740	1/0.141	1/3.58	0.141	3.58
–	–	10	19,740	7/0.54	7/1.37	0.162	4.12
20,820	7	–	–	1/0.1443	1/3.67	0.144	3.67
20,820	7	–	–	7/0.545	7/1.38	0.164	4.15
26,240	6	–	–	1/0.162	1/4.11	0.162	4.11
26,240	6	–	–	7/0.0612	7/1.55	0.184	4.66
–	–	16	31,580	7/0.068	7/1.73	0.204	5.18
33,090	5	–	–	7/0.0688	7/1.75	0.206	5.24
41,740	4	–	–	7/0.0772	7/1.96	0.232	5.88
–	–	25	49,340	7/0.085	7/2.16	0.255	6.48
–	–	25	49,340	19/0.052	19/1.32	0.260	6.60
52,620	3	–	–	7/0.0867	7/2.20	0.260	6.61
66,360	2	–	–	7/0.0974	7/2.47	0.292	7.42
–	–	35	69,070	7/0.100	7/2.54	0.300	7.62
–	–	35	69,070	19/0.061	19/1.55	0.305	7.75

Conductor reference

Circular mils Typical	AWG size	Metric wire size mm²	Equivalent circular mils	Stranding/wire diameter per standard in.	Stranding/wire diameter per standard mm	Approximate overall diameter in.	Approximate overall diameter mm
AWG/kcmil vs. metric wire sizes – option 1 (cont'd)							
83,690	1	–	–	19/0.0664	19/1.69	0.332	8.43
–	–	50	98,680	19/0.073	19/1.85	0.365	9.27
105,600	1/0	–	–	19/0.0745	19/1.89	0.373	9.46
133,100	2/0	–	–	19/0.0837	19/2.13	0.419	10.6
–	–	70	138,100	19/0.086	19/2.18	0.430	10.9
167,800	3/0	–	–	19/0.094	19/2.39	0.470	11.9
167,800	3/0	–	–	37/0.0673	37/1.71	0.471	12.0
–	–	95	187,500	19/0.101	19/2.57	0.505	12.8
–	–	95	187,500	37/0.072	37/1.83	0.504	12.8
211,600	4/0	–	–	19/0.1055	19/2.68	0.528	13.4
–	–	120	237.8 kcmil	37/0.081	37/2.06	0.567	14.4
250 kcmil	–	–	–	37/0.0822	37/2.09	0.575	14.6
300 kcmil	–	150	–	37/0.090	37/2.29	0.630	16.0
350 kcmil	–	–	–	37/0.0973	37/2.47	0.681	17.3
–	–	185	365.1 kcmil	37/0.100	37/2.54	0.700	17.8
400 kcmil	–	–	–	37/0.104	37/2.64	0.728	28.5
–	–	240	473.6 kcmil	37/0.114	37/2.90	0.798	20.3
–	–	240	473.6 kcmil	61/0.089	61/2.26	0.801	20.3
500 kcmil	–	–	–	37/0.1162	37/2.95	0.813	20.7
500 kcmil	–	–	–	61/0.0905	61/2.30	0.814	20.7
–	–	300	592.1 kcmil	61/0.99	61/2.51	0.891	22.6
600 kcmil	–	–	–	61/0.0992	61/2.52	0.893	22.7
700 kcmil	–	–	–	61/0.1071	61/2.72	0.964	24.5
750 kcmil	–	–	–	61/0.1109	61/2.82	0.998	25.4
750 kcmil	–	–	–	91/0.0908	91/2.31	0.999	25.4
–	–	400	789.4 kcmil	61/0.114	61/2.90	1.026	26.1
800 kcmil	–	–	–	61/0.1145	61/2.91	1.031	26.2
800 kcmil	–	–	–	91/0.0938	91/2.38	1.032	26.2
1,000 kcmil	–	500	986.8 kcmil	61/0.1280	61/3.25	1.152	29.3
1,000 kcmil	–	–	–	91/0.1048	91/2.66	1.153	29.3
–	–	625	1,233.7 kcmil	91/0.117	91/2.97	1.287	32.7
1,250 kcmil	–	–	–	91/0.1172	91/2.98	1.289	32.7
1,250 kcmil	–	–	–	127/0.0992	127/2.52	1.290	32.8
1,500 kcmil	–	–	–	91/0.1284	91/3.26	1.412	35.9
1,500 kcmil	–	–	–	127/0.1087	127/2.76	1.413	35.9
–	–	800	1,578.8 kcmil	91/0.132	91/3.35	1.452	36.9
–	–	1,000	1,973.5 kcmil	91/0.147	91/3.73	1.617	41.1
2,000 kcmil	–	–	–	127/0.1255	127/3.19	1.632	41.5
2,000 kcmil	–	–	–	169/0.1088	169/2.76	1.632	41.5

Conductor reference

Approximate overall diameter						Stranding/wire diameter per strand	
in.	mm	Circular mils	AWG size	Metric wire size mm²	Equivalent circular mils	in.	mm
AWG/kcmil vs. metric wire sizes – option 2							
0.032	0.81	–	–	0.50	987	1/0.032	1/0.813
0.036	0.91	1,020	20	–	–	7/0.0121	7/0.307
0.039	0.099	1,020	–	0.75	1,480	1/0.039	1/0.991
0.040	1.02	1,620	18	–	–	1/0.0403	1/1.02
0.046	1.16	1,620	18	–	–	7/0.0152	7/0.386
0.045	1.14	–	–	1.0	1,974	1/0.045	1/1.14
0.051	1.30	–	–	1.0	1,974	7/0.017	7/0.432
0.051	1.29	2,580	16	–	–	1/0.0508	1/1.29
0.058	1.46	2,580	16	–	–	7/0.0192	7/0.488
0.055	0.40	–	–	1.5	2,960	1/0.055	1/1.40
0.063	1.60	–		1.5	2,960	7/0.021	7/5.33
0.064	1.63	4,110	14	–	–	1/0.0641	1/1.63
0.073	1.84	4,110	14	–	–	7/0.0242	7/0.615
0.071	1.80	–	–	2.5	4,934	1/0.071	1/1.80
0.081	2.06	–		2.5	4,934	7/0.027	7/0.686
0.081	2.05	6,530	12	–	–	1/0.0808	1/2.05
0.092	2.32	6,530	12	–	–	7/0.0305	7/0.775
0.089	2.26	–	–	4	7,894	1/0.089	1/2.26
0.102	2.59	–	–	4	7,894	7/0.034	7/0.864
0.102	2.59	10,380	10	–	–	1/0.1019	1/2.59
0.116	2.93	10,380	10	–	–	7/0.0385	7/0.978
0.109	2.77	–	–	6	11,840	1/0.109	1/2.77
0.126	3.21	–		6	11,840	7/0.042	7/0.107
0.1144	2.91	13,090	9	–	–	1/0.1144	1/2.91
0.130	3.30	13,090	9	–	–	7/0.0432	7/1.10
0.128	3.26	16,510	8	–	–	1/0.1285	1/3.26
0.146	3.70	16,510	8	–	–	7/0.0486	7/1.23
0.141	3.58	–	–	10	19740	1/0.141	1/3.58
0.162	4.12	–		10	19740	7/0.054	7/1.37
0.144	3.67	20,820	7	–	–	1/0.1443	1/3.67
0.164	4.15	20,820	7	–	–	7/0.0545	7/1.38
0.162	4.11	26,240	6	–	–	1/0.162	1/4.11
0.184	4.66	26,240	6	–	–	7/0.0612	7/1.55
0.204	5.18	–	–	16	31,580	7/0.068	7/1.73
0.206	5.24	33,090	5	–	–	7/0.0688	7/1.75
0.232	5.88	41,740	4	–	–	7/0.0772	7/1.96
0.255	6.48	–	–	25	49,340	7/0.085	7/2.16
0.260	6.60	–		25	49,340	19/0.052	19/1.32
0.260	6.61	52,620	3	–	–	7/0.0867	7/2.20
0.292	7.42	66,360	2	–	–	7/0.0974	7/2.47
0.300	7.62	–	–	35	69,070	7/0.100	7/2.54
0.305	7.75	–	–	35	69,070	19/0.061	19/1.55

Conductor reference

Approximate overall diameter				Metric wire	Equivalent	Stranding/wire diameter per strand	
in.	mm	Circular mils	AWG size	size mm²	circular mils	in.	mm
AWG/kcmil vs. metric wire sizes – option 2 (cont'd)							
0.332	8.43	83,690	1	–	–	19/0.0664	19/1.69
0.365	9.27	–	–	50	98,680	19/0.073	19/1.85
0.373	9.46	105,600	1/0	–	–	19/0.0745	19/1.89
0.419	10.6	133,100	2/0	–	–	19/0.0837	19/2.13
0.430	10.9	–		70	138,100	19/0.086	19/2.18
0.470	11.9	167,800	3/0	–	–	19/0.094	19/2.39
0.471	12.0	167,800	3/0	–	–	37/0.0673	37/1.71
0.505	12.8	–	–	95	187,500	19/0.101	19/2.57
0.504	12.8	–		95	187,500	37/0.072	37/1.83
0.528	13.4	211,600	4/0	–	–	19/0.1055	19/2.68
0.567	14.4	–	–	120	237.8 kcmil	37/0.081	37/2.06
0.575	14.6	250 kcmil	–	–	–	37/0.0822	37/2.09
0.630	16.0	300 kcmil	–	150	–	37/0.090	37/2.29
0.681	17.3	350 kcmil	–	–	–	37/0.0973	37/2.47
0.700	17.8	–	–	185	365.1 kcmil	37/0.100	37/2.54
0.728	18.5	400 kcmil	–	–	–	37/0.104	37/2.64
0.798	20.3	–	–	240	473.6 kcmil	37/0.114	37/2.90
0.801	20.3	–	–	240	473.6 kcmil	61/0.089	61/2.26
0.813	20.7	500 kcmil	–	–	–	37/0.1162	37/2.95
0.814	20.7	500 kcmil	–	–	–	61/0.0905	61/2.30
0.891	22.6	–	–	300	592.1 kcmil	61/0.099	61/2.51
0.893	22.7	600 kcmil	–	–	–	61/0.0992	61/2.52
0.964	24.5	700 kcmil	–	–	–	61/0.1071	61/272
0.998	25.4	750 kcmil	–	–	–	61/0.1109	61/2.82
0.999	25.4	750 kcmil	–	–	–	91/0.0908	91/2.31
1.026	26.1	–	–	400	789.4 kcmil	61/0.114	61/2.90
0.031	26.2	800 kcmil	–	–	–	61/0.1145	61/2.91
0.032	26.2	800 kcmil	–	–	–	91/0.0938	91/2.38
1.152	29.3	1,000 kcmil	–	500	986.8 kcmil	61/0.1280	61/3.25
0.153	29.3	1,000 kcmil	–	–	–	91/0.1048	91/2.66
1.287	32.7	–	–	625	1,233.7 kcmil	91/0.117	91/2.97
1.289	32.7	1,250 kcmil	–	–	–	91/0.1172	91/2.98
1.290	32.8	1,250 kcmil	–	–	–	127/0.0992	127/2.52
1.412	35.9	1,500 kcmil	–	–	–	91/0.1284	91/3.26
1.413	35.9	1,500 kcmil	–	–	–	127/0.1087	127/2.76
1.452	36.9	–	–	800	1,578.8 kcmil	91/0.132	91/3.35
1.617	41.1	–	–	1,000	1,973.5 kcmil	91/0.147	91/3.73
1.632	41.5	2,000 kcmil	–	–	–	127/0.1255	127/3.19
1.632	41.5	2,000 kcmil	–	–	–	169/0.1088	169/2.76

D

EZGround®/Furseweld®/Blackburn® - Grounding systems

D

EZGround/Furseweld/Blackburn - Grounding systems

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Overview

Compression method grounding connectors save 50–75% in time and labor costs

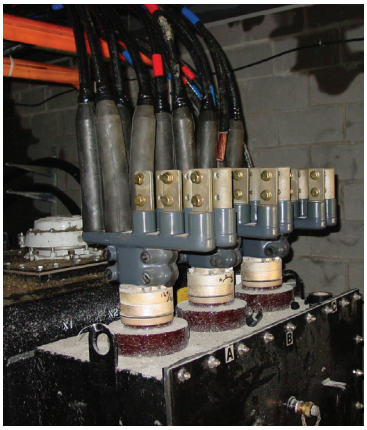
—
01 This installation method results in a long-lasting low-installed cost connection. You can install it and forget it. Before compression, typical cable connector cross section of cable and connector consists of about 75% metal and 25% air. After ABB method compression, the cross section shows 100% metal with virtually no air spaces.

- Eliminates exothermic welding
- Reduces time and labor costs
- Minimizes possibility of poor connections

ABB introduces a method of compression to replace exothermic welding and its associated disadvantages. This compression method is designed to provide quick, reliable connections for grid grounding at significantly lower installed costs because compression connectors install in less time, in any weather, and are unaffected by moisture, reducing downtime. In addition, our compression connectors for grid grounding require no special training for installation. They are made of high-conductivity wrought and cast copper, and are used for connecting and tapping cross grid, loop lines and ground rods for direct burial or concrete embedded ground grid systems. The ABB compression system uses standard electrical connector installation tools.

Meets all applicable specifications
ABB grid and ground rod connectors satisfy the requirements of CEC Section 10 for connecting to the grounding electrode system. They also meet the requirements of UL and CSA standards being acceptable as grounding and bonding equipment suitable for direct burial. ABB grid and ground rod connectors also satisfy the recommended practice for the selection of grounding connector joints described in the IEEE 837 standard for qualifying permanent connections used in substation grounding.

The connectors conform to the following IEEE 837 standard requirements:
- 350 °C current cycling
- Freeze-thaw test
- Accelerated aging – nitric acid/salt spray
- Mechanical, tensile and electromagnetic force (EMF) criteria
- Install in any weather – cut downtime
- Enhance safety
- Easy to install – no special training



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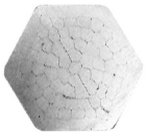
01

Overview

Reliable installations through compression connections

—
01 TBM14M
(Suggested tool for EZGround connectors to ground rods up to ⅝ in. diameter.)
—
02 Before compression
—
03 After compression

—
02



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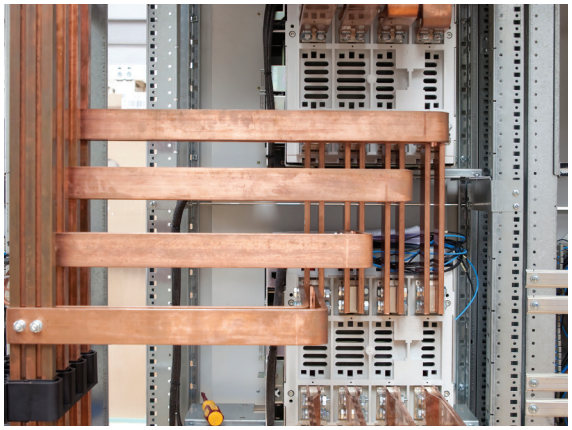
01

Dies that are used in hand and hydraulic tools contain the die code numbers, which are engraved on the compression surface of the die. Under compression, this number becomes embossed on the completed connection for inspection purposes.

The inspector compares the die code number embossed on the connector with the die table to ensure that the proper connector was compressed with the correct die for that particular size conductor.

This installation method results in a long-lasting, low-installed cost connection. You can install it and forget it. Before compression, typical cable connector cross section of cable and connector consists of about 75% metal and 25% air. After ABB method compression, the cross section shows 100% metal with virtually no air spaces.

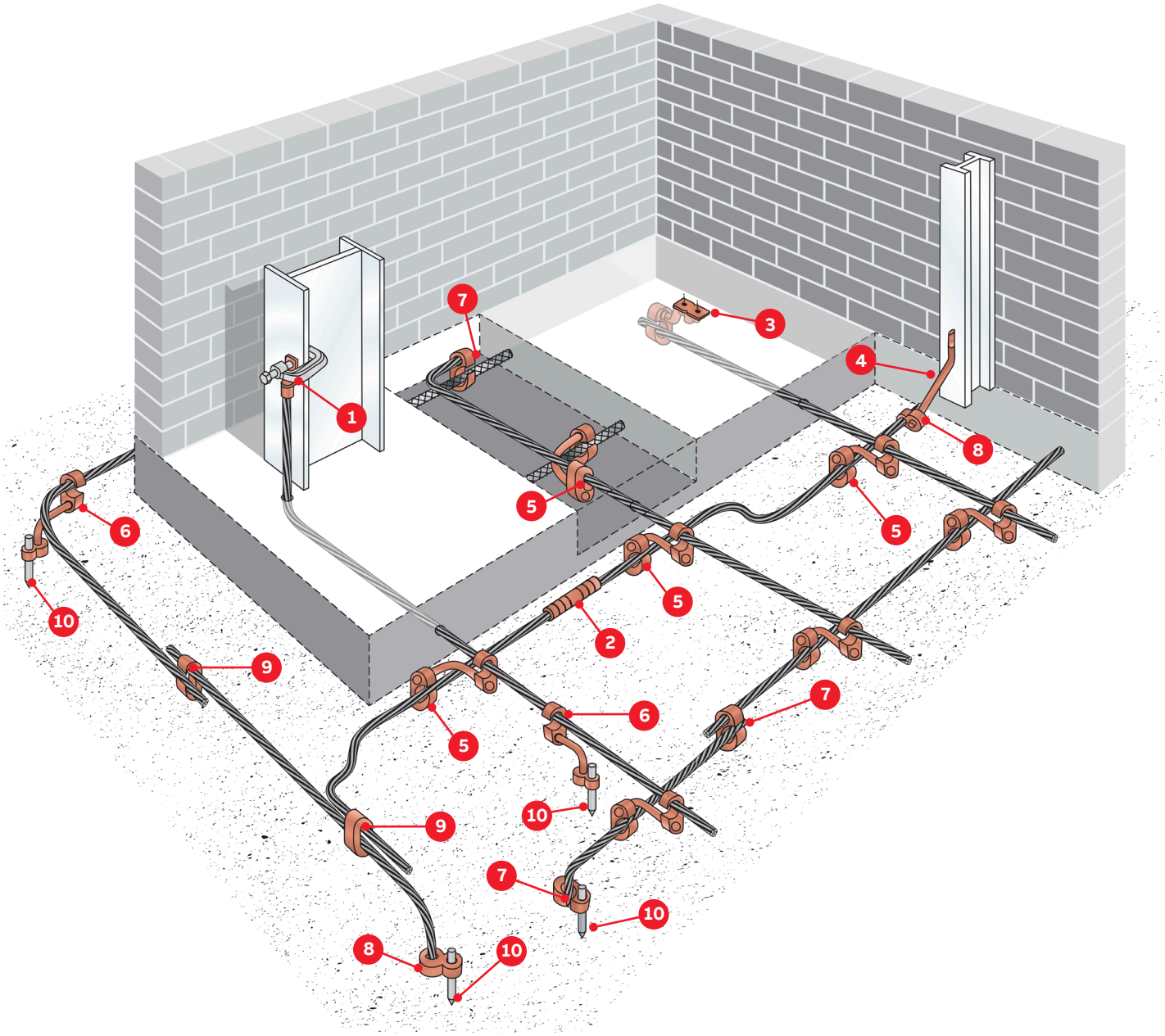


Overview

ABB offers a complete line of grid-ground compression connectors. Our EZGround connectors are designed for direct burial and offer a safe, efficient alternative to exothermic welding products. Grid-ground installations do not require explosive charges, and can be installed in various climate conditions.

These range-taking products will reduce the number of connectors and dies needed for your installation.

EZGround products meet all applicable standards (IEEE 837, UL, CSA). Connectors are prefilled with oxide inhibitors and sealed.



Overview

1 I-beam ground clamp connectors

2* Two-way splice connectors

3 Ground plates

4 Structural grounding studs

5 Figure 6 to 6 compression grid and ground rod connectors

6 Figure 6 to 8 compression ground rod to grid connectors

7 Figure 6 compression ground tap connectors

8 Figure 8 compression ground rod tap connectors

9 C-tap grid tap connectors

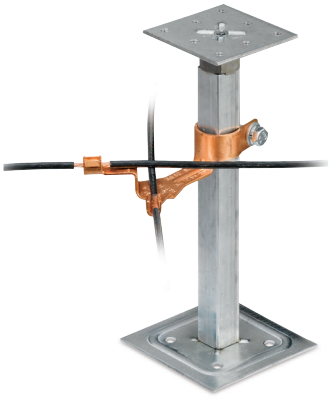
10 Galvanized steel ground rods (stainless steel rods are also available)

Copper bonded steel ground rods

Copper bonded steel sectional ground rods

* Color-Keyed® two-way splice connectors

Signal reference grid connectors



Compress #8 AWG throught 4/0 AWG cable

- Clamp onto pedestal posts up to 1 in. diameter square and 1¼ in. round
- Can be used as “X” or “T” configuration cable to post
- High-conductivity wrought-copper construction

Cat. no.	Conductor range (AWG)	Installing tools and die codes TBM14M and TBM15I		
		Die cat no.	Die code	Colour code
SRG8-4	#8	15527SS	29	Grey
	#6 to #4	15528SS	33	Brown
SRG2-1	#2 and #1	15508SS	42	Pink
SRG10-20	1/0 and 2/0	15530SS	50	Orange
SRG30-40	3/0 and 4/0	15511SS	54	Purple

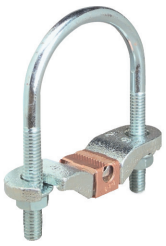
Secure signal reference grid wires to raised-floor support posts

- Range-taking design accepts #4 to #8 AWG grid wire and fits ¾ in. square to 1 in. round
- Lay-in feature means no kinks or bends
- Quick, easy installation
- Only one screw to tighten
- Enable grid wire to make direct, low-resistance contact with support posts
- Stamped-steel construction, zinc plated

Cat. no.	Description	Wire range (AWG)
3900 (Unit)	¾ in. square to 1 in. round	#8–#4
3900BP (Bulk pack)	¾ in. square to 1 in. round	#8–#4

Clamps

Waterpipe ground clamps



Cat. no.	Ground wire size (AWG)	Water pipe size (in.)
2-TB	#6, #4, #2	½, ¾, 1 or rebar 410
3-TB	#6, #4, #2	1¼, 1½ or 2
4	#6, #4, #2	2½, 3 or 3½
5-TB	#6, #4, #2	4, 4½ or 5
6	#6, #4, #2	6

Malleable iron crossbar, steel U-bolt complete with copper cable clamp with serrations.

Waterpipe ground clamps

Cat. no.	Ground wire size (AWG)	Water pipe size (in.)
3902BU*	#4–4/0	½–1
3903BU*	#4–4/0	1¼–2
3904BU*	#4–4/0	2½–3½
3905BU*	#4–4/0	4–5
3906BU*	#4–4/0	6
3907BU*	#4–4/0	8
3908BU*	#4–4/0	10
3909BU*	#4–4/0	12

Material: Bronze U-bolt and nut complete with bronzed aluminum cap and crossbar with a bright dip finish. *UL listed for direct burial.

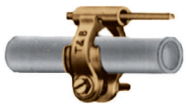
Waterpipe ground clamps

Cat. no.	Ground wire size (AWG)	Water pipe size (in.)
3902	#4–4/0	½–1
3903	#4–4/0	1¼–2
3904	#4–4/0	2½–3½
3905-TB	#4–4/0	4–5
3906-TB	#4–4/0	6
3907	#4–4/0	8
3908	#4–4/0	10
3909-TB	#4–4/0	12

Material: Steel U-bolt and nut complete with bronzed aluminum cap and crossbar cadmium plated plus gold chromate finish.

Ground clamps

Cat. no.	Material	Water pipe, copper tubing size (in.)	Ground rod size (in.)
3826*	Malleable iron	½, ¾	½–1
3846*	Bronze	½, ¾	½–1
3840-TB•	Malleable iron	½, ¾ or 1	½–1



* For unarmored copper wires #6, #4 AWG. UL approved for direct burial.
• #8 thru #4 AWG. Not CSA certified

Ground clamps for K&L grade copper tubing only

	Cat. no.	Ground wire size (AWG)	Water pipe, copper tubing size (in.)
For armored and unarmored wires	3844*	#8–#4	½–1
	3888**	#8–#4	½–1, also rebar 4–10

* With steel screws.
** UL approved for direct burial. Silicon bronze screws.

Ground clamp accessories

Cat. no.	Description	For use with
10102-TB	For 1¼ to 1½ in. cables	#8–#2 AWG ground wire

Material: Malleable iron, zinc plated.

Cat. no.	For use with
10105	Single conductors #4 AWG solid to 2/0 AWG str.
10109	Single conductors 2/0 AWG solid to 4/0 AWG str.

Clamps

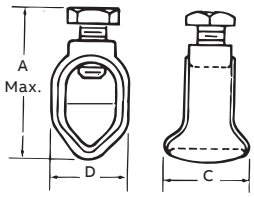
Type JAB — ground rod clamps

- Cast of high-strength corrosion-resistant copper alloy
- Both hex head and socket set screws available
- Long bearing surface of clamp on ground wire secures ground connection
- Listed for direct burial

DB

Cat. no.		Nominal rod dia.		Wire range				Dimensions (in.)					
Socket set screw	Hex head Bolt	(in.)	(mm)	Max. (AWG)	Min. (AWG)	Max. (mm²)	Min. (mm²)	A (max.) socket screw	A (max.) hex bolt	Screw thread size UNC-2A	B	C	D
JAB12*	JAB12H	½	12.7	2 str.	10 sol.	33.6	5.2	1 19/32	2 3/32	7/16-14	27/32	7/8	19/32
JAB58	JAB58H	⅝	15.8	1/0 str.	8 sol.	53.4	8.3	1 27/32	2 13/64	7/16-14	29/32	1	11/16
JAB34	JAB34H	¾	19.0	1/0 str.	8 sol.	53.4	8.3	2	2 11/32	7/16-14	11/16	1	51/64
–	JAB34C	¾ + ⅝	15.8 to 19.0	3/0 str.	8 sol.	95.0	8.3	–	2 11/32	7/16-14	1 1/8	1 1/32	13/16
JAB1	JAB1H	1	25.0	3/0 str.	8 sol.	107.1	8.3	2 1/4	3	7/16-14	1 11/32	1 1/16	1

Diagrams



* CSA not applicable.
Add suffix P to cat. no. for tin-plated clamp.

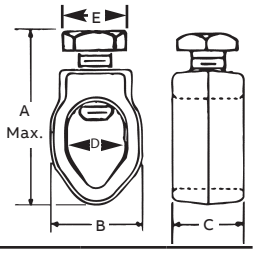
Type G — budget line ground clamps

- A dependable ground connection offered at a substantial saving
- Cast of high-strength corrosion-resistant copper alloy
- Hex head bolts
- Simplified compact design will make a lasting, trouble-free connection
- Listed for direct burial

DB

Cat. no.	Nominal rod dia.		Wire range				Dimensions (in.)					
	(in.)	(mm)	Max. (AWG)	Min. (AWG)	Max. (mm²)	Min. (mm²)	A (Max.) Bolt	Screw Thread Size UNC-2A	B	C	D	E
G3*	⅜	9.5	4 str.	10 sol.	21.1	5.2	1-⅜	5/16-18	11/16	1/2	27/64	⅜
G4	½	12.7	2 str.	10 sol.	33.6	5.2	–	⅜-16	27/32	⅜	37/64	½
G5	⅝	15.8	2 str.	10 sol.	33.6	5.2	–	⅜-16	29/32	⅜	43/64	½
G6	¾	19.0	2 str.	10 sol.	33.6	5.2	–	⅜-16	1 1/16	⅜	13/16	½

Diagrams



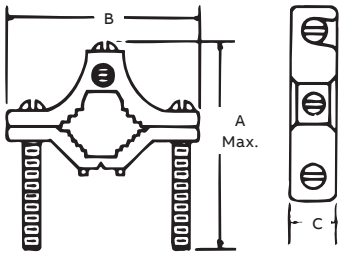
* Not UL listed and CSA not applicable.
Add suffix P to cat. no. for tin-plated clamp.

Clamps

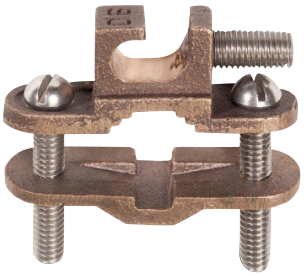
Budget price cast bronze clamp
Similar to aluminum water pipe clamp but lighter in construction.

Cat. no.	Water pipe size (in.)	Conductor range (AWG) Max.	Conductor range (AWG) Min.	Dimensions (in.) A	Dimensions (in.) B	Dimensions (in.) C
JJR	½ to 1	#4 str.	#10 sol.	1 19/32	27/32	7/8

Diagrams



Add suffix C to cat. no. to specify plating.



Type JDLI — direct burial ground clamp
Lay-in feature reduces installation time for difficult bends or continuous loops of ground wire.

- UL listed for direct burial in earth/concrete
- UL listed for connection to ground rod, pipe or rebar up to 1 in.
- Constructed from bronze alloy and high-performance stainless steel bolts
- Designed for easy installation of difficult bends or continuous loops

Cat. no.	Pipe size (in.)	Rebar size (in.)	Ground rod size (in.)	Conductor range (AWG)	Mech. conn./ splice (UL Listed)
JDLI	½–1	⅜–1	¼–1	#10 sol.–#2 str.	(2) #8 AWG sol.

Clamps

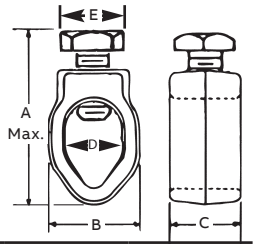
Type JWR — wide-range ground rod clamp

- Listed for direct burial in earth/concrete
- Constructed from bronze alloy and high-performance stainless steel bolt
- Provides wide range of connection sizes
- More than 300 lb torque capacity

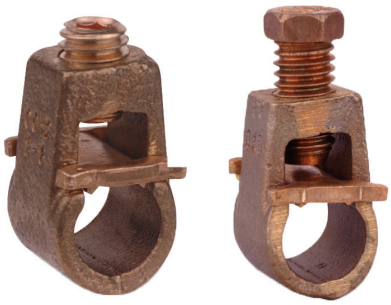
DB

	Nominal rod dia.		Wire range					Dimensions (in.)		
Cat. no.	(in.)	(mm)	Max. (AWG)	Min. (AWG)	Max. (mm²)	Min. (mm²)	A (max.) bolt	B	C	D
JWR	⅜*	9.5	1/0 str.	10 sol.	53.4	5.2	1.535	1.050	0.812	0.652
	½	12.7	1/0 str.	10 sol.	53.4	5.2	1.535	1.050	0.812	0.652
	⅝	15.8	1/0 str.	10 sol.	53.4	5.2	1.535	1.050	0.812	0.652
	¾	19.0	1/0 str.	10 sol.	53.4	8.3	1.535	1.050	0.812	0.652

Diagrams



* ⅜ in. rod CSA not applicable/listed by UL.

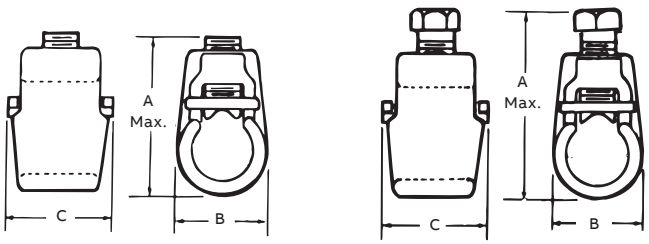


Types GG and GGH — heavy-duty ground rod clamps

- Cast of high-strength corrosion-resistant copper alloy; two types of screws available
- Type GG has a socket set screw
- Type GGH has a hex head bolt
- Floating pressure bar distributes pressure evenly over a large area of the ground wire
- Axial groove keeps wire and rod in perfect alignment

Cat. no.		Nominal rod dia.		Wire range							Dimensions (in.)	
Socket set screw	Hex head bolt	(in.)	(mm)	Max. (AWG)	Min. (AWG)	Max. (mm²)	Min. (mm²)	A (max.) socket screw	A (max.) hex bolt	Screw thread size UNC-2A	B	C
GG12	GG12H	½	12.7	2 str.	8 sol.	33.6	8.3	1 13/64	1 13/16	7/16-14	27/32	15/16
GG58	GG58H	⅝	15.8	2/0 str.	8 sol.	53.6	8.3	1 51/64	2 7/32	7/16-14	61/64	15/16
–	GG34H**	¾	19.0	4/0 str.	8 sol.	120.6	8.3	–	3	½-14	1⅜	1¼

Diagrams



** CSA not applicable.
GG34H has no pressure bar or axial groove.
Add suffix P to cat. no. for tin-plated clamp.

Clamps

Budget price cast bronze clamps

Type swings 360° for ease of alignment.

- Pipe clamping portion identical to "JA" clamp
- Pressure-bar type conduit hub adjusts to fit ½ in. or ¾ in. EMT or ½ in. rigid conduit
- Brass washer provides positive contact with grounding conductor
- Furnished with zinc-plated screws

Cat. no.	Conduit size	Water pipe size (in.)	Conductor range (AWG) Max.	Conductor range (AWG) Min.
JPT	½ in. or ¾ in. EMT, ½ in. rigid	½ to 1	#6 sol.	#10 sol.
JPT2	½ in. or ¾ in. EMT, ½ in. rigid	1¼ to 2	#6 sol.	#10 sol.
JPT4	½ in. or ¾ in. EMT, ½ in. rigid	2½ to 4	#6 sol.	#10 sol.

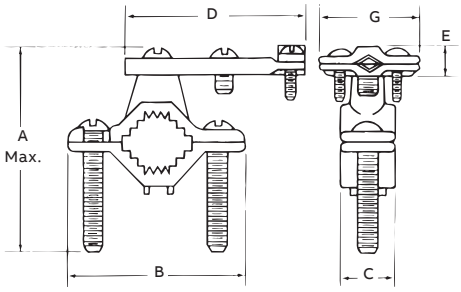
Cast bronze clamps

For connecting armored cable to water pipe.

- Clamping portion similar to standard "J" clamp
- Special pressure bar grips armor or outer cable insulation to reduce chance of grounding conductor being pulled out
- Furnished with zinc-plated screws

Cat. no.	Water pipe size (in.)	Conductor range (AWG) Max.	Conductor range (AWG) Min.	Dimensions (in.) A	B	C	D	E	G
JA	½ to 1	#6 sol.	#10 sol.	2¾	2 11/32	25/32	2 9/32	15/32	1⅜
JA2	1¼ to 2	#6 sol.	#10 sol.	3¾	3½	13/16	2 9/32	15/32	1⅜
JA2124	2½ to 4	#6 sol.	#10 sol.	6	6 5/16	1	2 9/32	15/32	1⅜

Diagrams



Add suffix C to cat. no. to specify plating.

Clamps

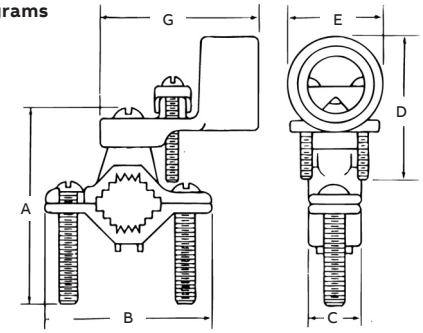
Cast bronze clamps for conduit

- For grounding rigid conduit systems
- Continuity from rigid conduit system to ground provided by cast bronze threaded conduit hub
- Hub swings 360° for easy alignment
- Heavy brass washer protects clamped grounding conductor
- Furnished with zinc-plated screws
- Cast bronze pipe clamping portion identical to that used in "JA" clamp

DB

Cat. no.	Conduit size (in.)	Water pipe size (in.)	Conductor range (AWG) Max.	Conductor range (AWG) Min.	Dimensions (in.) A	B	C	D	E	G
JP12	½	½ to 1	#6 sol.	#10 sol.	2¾	2 11/32	23/32	1 9/64	1	2½
JP212	½	1¼ to 2	#6 sol.	#10 sol.	3¾	3½	13/16	1 9/64	1	2½
JP212412	½	2½ to 4	#6 sol.	#10 sol.	6	6 5/16	1	1 9/64	1	2½
JP34	¾	½ to 1	#2/0 str.	#10 sol.	2¾	2 11/32	23/32	2 5/16	1¼	2 3/16
JP234	¾	1¼ to 2	#2/0 str.	#10 sol.	3¾	3½	13/16	2 5/16	1¼	2 3/16
JP1	1	½ to 1	#3/0 str.	#10 sol.	2¾	2 11/32	23/32	2 5/16	1½	2⅜
JP21	1	1¼ to 2	#3/0 str.	#10 sol.	3¾	3½	13/16	2 5/16	1½	2⅜
JP21241	1	2½ to 4	#3/0 str.	#10 sol.	6	6 5/16	1	2 5/16	1½	2⅜

Diagrams



Add suffix C to cat. no. to specify plating.

Cast bronze clamps with copper strap

- Flexible copper strap makes alignment easy
- For grounding rigid conduit systems
- Same features as "JP" clamp plus flexible copper strap
- Strap helps protect conduit system from water system vibrations
- Furnished with zinc-plated screws

Cat. no.	Conduit size (in.)	Water pipe size (in.)	Conductor range (AWG) Max.	Conductor range (AWG) Min.
JPS12	½	½ to 1	#6 sol.	#10 sol.
JPS34	¾	½ to 1	2/0 str.	#10 sol.
JPS1	1	½ to 1	3/0 str.	#10 sol.

Add suffix C to cat. no. to specify plating.

Clamps

Cast bronze ground clamps

- Connect copper ground wire to water pipe, copper tubing or ground rods
- High-strength, high-conductivity copper alloy (over 80% copper)
- UL approved for direct burial

DB

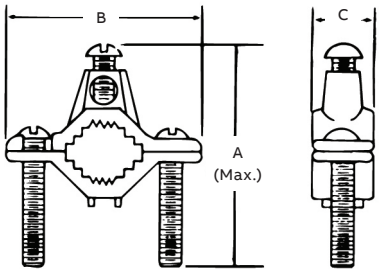
Cat. no.	Water pipe size (in.)	Conductor range
JD	½ to 1	#2 str.–#10 str.
J2D	1¼ to 2	#2 str.–#10 str.

Type J – cast bronze ground clamps

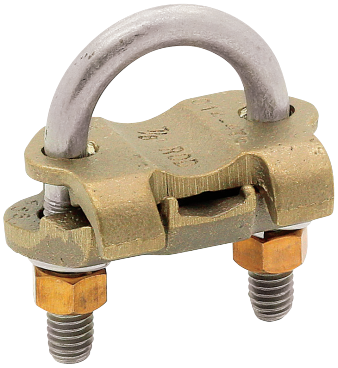
- For connecting grounding conductor to water pipe or copper tube
- Cast of high-strength, highly conductive copper alloy
- Screws plated for corrosion resistance
- UL listed

		Conductor range (AWG)		Dimensions (in.)		
Cat. no.	Water pipe size (in.)	Max.	Min.	A	B	C
J	½ to 1	#2 str.	#10 sol.	2¾	2 11/32	23/32
J2BB	1¼ to 2	#2 str.	#10 sol.	3¾	3½	13/16
J2124	2½ to 4	#2 str.	#10 sol.	6	6 5/16	1
J6	4¼ to 6	#2 str.	#10 sol.	7¼	8⅛	1

Diagrams



Clamps



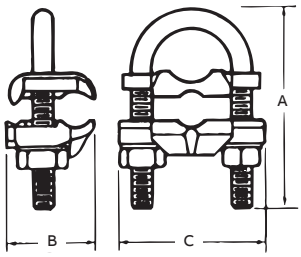
Type GUV – U-bolt clamps

- Listed for direct burial in earth or concrete
- For connecting copper or copper-clad steel grounding conductor to ground rod, pipe or rebar
- Excellent for connecting multiple electrodes with a single cable as in substation grounding
- GUV body components are cast or forged from copper alloy and U-bolts are stainless steel
- Specially designed spacer provides proper alignment between cable and electrode and affords more positive contact area

DB

	Conductor range Cu (AWG)		Nominal rod size (in.)		IPS pipe size (in.)		Dimensions (in.)		
Cat. no.	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**A**	**B**	**C**
GUV584	#4	#8	¾	⅝	⅜	–	2 13/16	1 9/16	2¼
GUV5821	2/0	#4	¾	⅝	⅜	–	2 13/16	1 9/16	2¼
GUV5825	250	2/0	¾	⅝	⅜	–	2 13/16	1 9/16	2¼
GUV784	#4	#8	1	⅞	¾	½	2¾	1 9/16	2⅝
GUV7821	2/0	#4	1	⅞	¾	½	2¾	1 9/16	2⅝
GUV7825	250	2/0	1	⅞	¾	½	2¾	1 9/16	2⅝
GUV1184	#4	#8	1¼	1⅛	1	–	3 5/16	1 9/16	2¾
GUV11821	2/0	#4	1¼	1⅛	1	–	3 5/16	1 9/16	2¾
GUV1384	#4	#8	1½	1⅜	1¼	–	3 7/16	1 9/16	2 15/16
GUV13821	2/0	#4	1½	1⅜	1¼	–	3 7/16	1 9/16	2 15/16
GUV13825	250	2/0	1½	1⅜	1¼	–	3 7/16	1 9/16	2 15/16
GUV1584	#4	#8	1⅞	1⅝	1½	–	3 15/16	1 9/16	3 3/16
GUV15821	2/0	#4	1⅞	1⅝	1½	–	3 15/16	1 9/16	3 3/16
GUV15825	250	2/0	1⅞	1⅝	1½	–	3 15/16	1 9/16	3 3/16
GUV204	#4	#8	2⅜	2	2	–	4 7/16	1 9/16	3 11/16
GUV2021	2/0	#4	2⅜	2	2	–	4 7/16	1 9/16	3 11/16
GUV2025	250	2/0	2⅜	2	2	–	4 7/16	1 9/16	3 11/16
GUV21221	2/0	#4	2⅞	2½	2½	–	4 15/16	1 9/16	4 3/16
GUV21225	250	2/0	2⅞	2½	2½	–	4 15/16	1 9/16	4 3/16
GUV3021	2/0	#4	3½	3	3	–	5 9/16	1 9/16	4 13/16
GUV3025	250	2/0	3½	3	3	–	5 9/16	1 9/16	4 13/16
GUV31221	2/0	#4	4	3½	3½	–	6 1/16	1 9/16	5½
GUV4021	2/0	#4	4½	4	4	–	6 5/16	1 9/16	5 11/16
GUV4025	250	2/0	4½	4	4	–	6 5/16	1 9/16	4 13/16

Diagrams



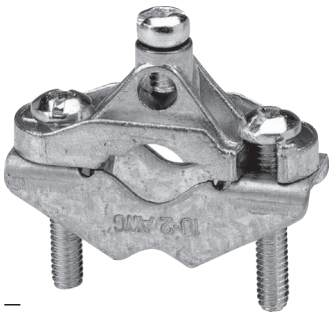
For tin-plated, add suffix TP to cat. no.

Clamps

Technical specifications

—
01 CI3106
—
02 CI3108
—
03 CI3110U
—
04 CI3112U
—
05 CIGRC58

—
01



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02

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05

		Ground wire size (AWG)		Ground rod size (in.)	
Cat. no.	**Water pipe size (in.)**	**Min.**	**Max.**	**Galv. steel**	**Copper clad**
Ground clamps (zinc alloy body/steel screws)					
CI3106	½ to 1	#10 sol.	#2 str.	⅝ to 1*	–
Ground clamps (zinc/steel)					
CI3108	½ to 1	#10 sol.	#2 str.	⅝ to 1*	–
For connecting grounding conductor to either galvanized steel rod or water pipe.					
Ground clamps (brass body/brass screws)					
CI3110U	½ to 1	#10 sol.	#2 str.	⅝ to 1*	⅝ to 1
For connecting grounding conductor to either galvanized steel rod, copper clad or water pipe. CSA approved for wet locations and for direct burial.					
Ground clamps (brass body/brass screws)					
CI3112U	1¼ to 2	#10 sol.	#2 str.	–	–
For connecting grounding conductor to water pipe. CSA approved for wet locations and for direct burial.					
Ground rod clamps (bronze body/brass screws)					
CIGRC58	–	#10 sol.	#2 str.	⅝	⅝
CIGRC34		#8 sol.	1/0 str.	¾	¾

For connecting grounding conductor to either galvanized steel rod or copper clad rod.
CSA approved for wet locations and for direct burial.
*Reversible.

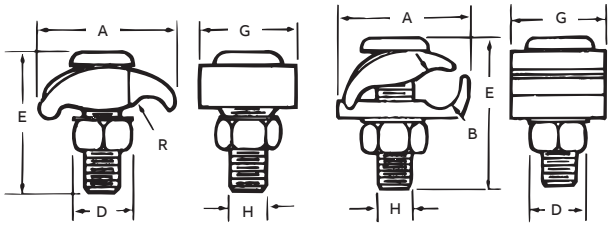
Clamps

Type GTC – Tower ground clamps

- Bolt has square shank to prevent turning and allow clamp to be tightened with one wrench
- GTC 23 and 24 are two-piece clamps for connecting ground lead cable to flat metal surface; ideal for grounding substations on tower footings
- Castings are of high-strength, corrosion-resistant copper alloy
- GTC 13 and 14 are economical one-piece clamps that perform the same function as two-piece clamps except the under-pad support is omitted and conductor is connected directly to tower
- Add suffix L to cat. no. for ½ in. channel thickness

	Conductor range					Dimensions (in.)						
Cat. no.	Max. (AWG)	Min. (AWG)	Max. (mm²)	Min. (mm²)	Channel thickness (in.)	A	B	D	E	G	H	R
GTC13	2/0 str.	#4 sol.	67.4	21.1	¼	1 15/32	–	9/16	1 21/32	13/32	3/8	7/32
GTC14	250 kcmil	2/0 str.	126.6	67.4	¼	1 15/16	–	3/4	1 15/16	1 13/32	1/2	5/16
GTC23	2/0 str.	#4 sol.	67.4	21.1	¼	1 41/64	7/16	9/16	2 21/32	1 3/32	3/8	–
GTC24	250 kcmil	2/0 str.	126.6	21.1	¼	1 61/64	5/8	3/4	1 15/16	1 3/8	1/2	–

Diagrams



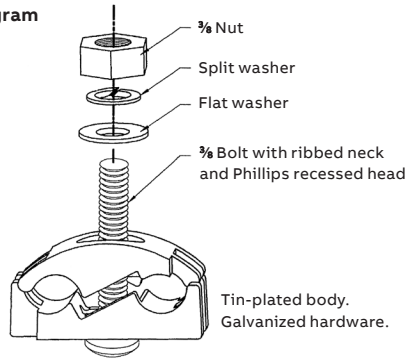
Type GTC 13 and 14 Type GTC 23 and 24

CTG250 – Wide range tower ground clamp

- For use with aluminum or copper conductors and in aluminum or galvanized steel cable tray
- Ribbed neck on the bolt prevents rotation during tightening if 0.440 in. dia. hole is used

Cat. no.	Wire range (2 sides) (AWG or kcmil)	Height (in.)	Width (in.)	Depth (in.)	Nut (flats) (in.)
CTG250	#2 sol. (0.258 in. Dia.), 250 (0.575 in. Dia.)	1.95	2.00	1.13	0.560

Diagram



Clamps

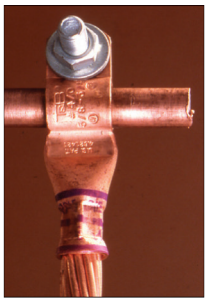
I-beam ground clamps

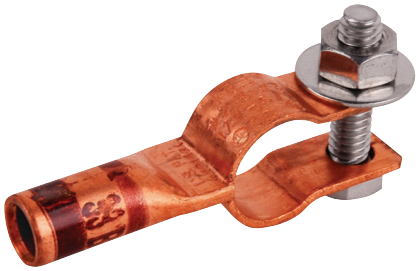
Connect ground cable to I-beam or any 1 in. maximum structural steel member – without welding or drilling.

- Breakaway bolt head shears at predetermined torque to ensure tight connection
- Heavy-duty compression lug provides excellent current-carrying capabilities
- Surface of steel must be cleaned in accordance with installation instruction sheet provided with product
- Connector made of high-conductivity cast copper bright dip
- Clamp made of drop-forged high-grade steel, zinc-plated

Cat. no.	Wire range (AWG or kcmil)	TBM15I, TBM15 Installing tool, die code	Die cat. no.	Number of crimps
IBG2-10	#2–1/0	66H	15534SS	2
IBG20-40	2/0–4/0	76H	15512SS	2
IBG350-500	350–500	115H	15504SS	2

Hydraulic tooling with hex crimp dies.
Use 15500TB adaptor for TBM15I 15-ton tool.





Ground clamps

For permanent, reliable connection.

- Crimp to cable
- Clamp to ground rod and rebar
- Use standard Color-Keyed hand and hydraulic tools
- Colour-coded for easy installation die selection
- Made from high-conductivity wrought copper
- Furnished with stainless steel hardware, ¼ in. washers, bolts and nuts

DB

Cat. no.	Wire size (AWG)	Ground rod diameter (in.)	Rebar (in.)	Bolt size (in.)	Die code and colour
CC2C-45R	#2–#3	½ or ⅝	0.80	0.25	33 Brown
CC1C-45R	#1	½ or ⅝	0.80	0.25	37 Green
CC10C-56R	1/0	⅝ or ¾	0.83	0.38	42 Pink
CC20C-56R	2/0	⅝ or ¾	0.83	0.38	45 Black
CC40C-56R	4/0	⅝ or ¾	0.83	0.38	54 Purple

UL Approved for direct burial.

Clamps

Flat-surface ground clamps

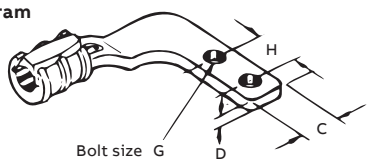
Terminate or connect continuous runs of copper cable to flat surfaces.

- Captive “keeper bar” design extends cable range and helps hold cable prior to crimping, facilitating installation
- Saddles marked with conductor size and die code
- Conductor can be assembled to saddle with standard dies and hydraulic tools
- Made from high-conductivity cast copper

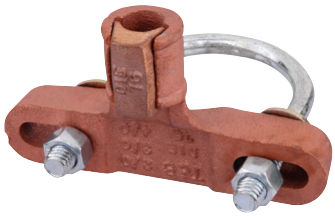
DB

Cat. no.	Wire range (AWG or kcmil)	Bolt hole (in.)	Die code no.	Qty.	Std. pkg.	Wt. per 100	Hex die Cat. no.	Hex die Die code no.	Dimensions in. (mm) L1	L2	D	C	H
53055FL	1/0–2/0 AWG	⅜	66	2	10	75	15534*	66	4.09 (103.9)	3.66 (93.0)	0.28 (7.1)	1.38 (35.1)	1.00 (25.4)
53065FL	4/0–250 kcmil	⅜	87H	2	10	112	15506**	87H	4.50 (114.3)	4.09 (103.9)	0.31 (7.9)	1.38 (35.1)	1.00 (25.4)

Diagram



* TBM14M, 13100A, TBM15I with hex crimp dies.
** TBM15I with hex crimp dies only.



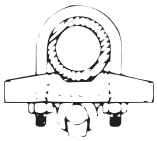
Grid-to-fence ground clamps

Bond copper conductors to steel or aluminum fence post or top rail of round fence posts.

- Provide quick, dependable installation at low installed cost
- Use no incendiary materials
- Body made from cast copper alloy with steel U-bolt

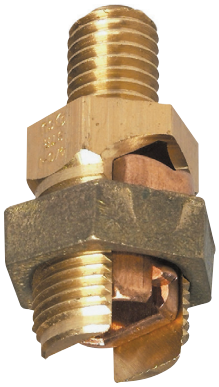
Cat. no.	Ground cable range (AWG)	Die code	Steel and aluminum line post range (in)
FG2040R2	2/0–3/0–4/0	76	2.00
FG2040R25	2/0–3/0–4/0	76	2.50
FG2040R3	2/0–3/0–4/0	76	3.00
FG210R2	#2–#1–1/0	66	2.00
FG210R25	#2–#1–1/0	66	2.50
FG210F3	#2–#1–1/0	66	3.00

Diagram



Install with hydraulic tooling with hex crimp dies.

Service post connectors



Type DS – Service post connectors, short stud application
The Blackburn line of service post connectors is designed for applications including steel structure, fence post or transformer grounding involving one or two cables. Service posts can also be used to tap one or two cables from bus bar.

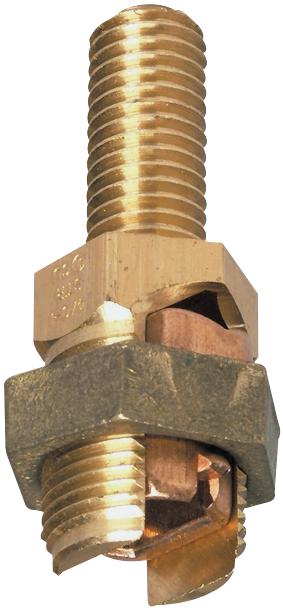
Construction and ratings
Bolts used in the service post are machined from high-conductivity bronze alloy while the nuts are cold-formed from high-strength, corrosion-resistant copper alloy. Pressure bars are copper through 4/0 size, while copper alloy is used for 350 kcmil size and above. Bolts and nuts are of the traditional Blackburn hex design for easy installation.

Service post connectors are available in sizes accommodating AWG copper conductor ranges of #12–500 kcmil stranded (4 mm²–240 mm²) and #12–#2 solid (4 mm²–35 mm²).
The line includes both short and long stud versions for single and double conductor connectors.

- For copper to copper connections
- For grounding of steel structures, fence posts or transformers using one or two cables
- For tapping one or two cables from bus bar
- Hex design bolts are machined from high-conductivity bronze alloy
- Nuts and pressure bars are cold-formed from high-strength copper or copper alloy

Cat. no.		Conductor range stranded AWG (mm²)		Conductor range solid AWG (mm²)		Maximum diameter range (in.)	Stud size (in.)
Double conductor	Single conductor	Max.	Min.	Max.	Min.		
SP0DS	SP0SS	#8 (6)	#12 (4)	#8 (6)	#12 (4)	0.146–0.080	¼–20 x ½
SP1DS	SP1SS	#7 (10)	#10 (6)	#6 (10)	#10 (6)	0.170–0.102	¼–20 x ½
SP2DS	SP2SS	#5 (16)	#10 (6)	#4 (16)	#10 (6)	0.217–0.102	5/16–18 x ⅝
SP3DS	SP3SS	#3 (25)	#10 (6)	#2 (35)	#10 (6)	0.271–0.102	⅜–16 x ⅝
SP4DS	SP4SS	#1 (35)	#8(6)	#2 (35)	#8 (10)	0.332–0.128	⅜–16 x ⅝
SP5DS	SP5SS	1/0 (50)	#2 (35)	#2 (35)	–	0.385–0.259	½–13 x ¾
SP6DS	SP6SS	2/0 (70)	#2 (35)	#2 (35)	–	0.443–0.258	½–13 x ¾
SP8DS	SP8SS	4/0 (95)	#1 (35)	–	–	0.570–0.289	⅝–11 x 1
SP9DS	SP9SS	350 (150)	1/0 (70)	–	–	0.715–0.373	⅝–11 x 1
SP10DS	SP10SS	500 (240)	3/0 (95)	–	–	0.840–0.464	¾–10 x 1¼

Service post connectors



Type SP – Service post connectors, long stud

- For copper to copper connections
- For grounding of steel structures, fence posts or transformers using one or two cables
- For tapping one or two cables from bus bar
- Hex design bolts are machined from high-conductivity bronze alloy
- Nuts and pressure bars are cold-formed from high-strength copper or copper alloy
- Pressure bars are copper through 4/0 AWG size; copper alloy is used for 350 kcmil size and above
- Available in sizes accommodating AWG copper conductor ranges of #12–500 kcmil stranded (4 mm²–240 mm²) and #12–#2 solid (4 mm²–35 mm²)
- Line includes single conductor and double conductor connectors

Cat. no.		Conductor range stranded AWG (mm²)		Conductor range solid AWG (mm²)		Maximum diameter range (in.)	Stud size (in.)
Double conductor	Single conductor	Max.	Min.	Max.	Min.		
SP0DL	SP0SL	#8 (6)	#12 (4)	#8 (6)	#12 (4)	0.146–0.080	¼–20 x 1
SP1DL	SP1SL	#7 (10)	#10 (6)	#6 (10)	#10 (6)	0.170–0.102	¼–20 x 1
SP2DL	SP2SL	#5 (16)	#10 (6)	#4 (16)	#10 (6)	0.217–0.102	5⁄16–18 x 1
SP3DL	SP3SL	#3 (25)	#10 (6)	#2 (35)	#10 (6)	0.271–0.102	⅜–16 x 1⅛
SP4DL	SP4SL	#1 (35)	#8 (6)	#2 (35)	#8 (10)	0.332–0.128	⅜–16 x 1⅛
SP5DL	SP5SL	1/0 (50)	#2 (35)	#2 (35)	–	0.385–0.259	½–13 x 1¼
SP6DL	SP6SL	2/0 (70)	#2 (35)	#2 (35)	–	0.443–0.258	½–13 x 1¼
SP8DL	SP8SL	4/0 (95)	#1 (35)	–	–	0.570–0.289	⅝–11 x 1½
SP9DL	SP9SL	350 (150)	1/0 (70)	–	–	0.715–0.373	⅝–11 x 1½
SP10DL	SP10SL	500 (240)	3/0 (95)	–	–	0.840–0.464	¾–10 x 1¾

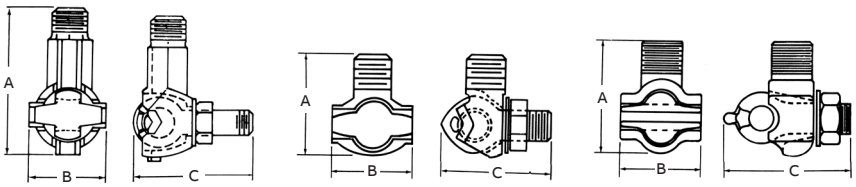
Transformer tank ground connectors

Type TTC –Transformer tank ground connectors

- Transformer grounding connectors are cast of high-conductivity bronze; ½ in.–13 stud fits all standard EEI-NEMA distribution transformers
- Eye bolt on TTC2 rotates to accommodate cable in either vertical or horizontal direction
- One size connector to handle full range of grounding conductors from #8 through 2/0 AWG str.
- No special tools required

	Conductor range				Stud thread	Dimensions (in.)		
Cat. no.	**Max. (AWG)**	**Min. (AWG)**	**Max. (mm²)**	**Min. (mm²)**	**size UNC-2A**	**A**	**B**	**C**
TTC2	2/0 str.	#8 sol.	67.4	8.3	½ in.–13	1 51/64	1 9/64	1 21/32
TTC3	#1 str.	#10 sol.	42.4	5.2	½ in.–13	1 3/8	1 3/64	1 9/16
TTC4+	#1 str.	#10 sol.	42.4	5.2	½ in.–13	1 1/4	7/8	1 3/8
TTC2P+	2/0 str.	#8 sol.	67.4	8.3	½ in.–13	1 51/64	1 9/64	1 21/32
TTC3P*	#1 str.	#10 sol.	42.4	5.2	½ in.–13	1 3/8	1 3/64	1 9/16
TTC4P*	#1 str.	#10 sol.	42.4	5.2	½ in.–13	1 1/4	7/8	1 3/8

Diagrams



TTC2 TTC4 TTC3

* Tin-plated.
\+ RUS listed.

Conduit hubs

Conduit hubs

Cat. no.	Ground wire size (AWG)	Conduit/wire size
3930	#8 to #2	½ in. Conduit
3940	#8 to #2	¾ in. Conduit
3950	#8 to 3/0	1 in. Conduit
3951	#8 to 4/0	1¼ in. Conduit
3960	#8 to #4	Armored wire

Material: Malleable iron.

Type CH – Bronze conduit hubs

- Rugged cast bronze threaded hub
- Provide positive connection between rigid conduit and water system in conjunction with “J” clamp

		Conductor range (AWG)	
Cat. no.	Conduit size (in.)	Max.	Min.
CH12	½	#6 sol.	#10 sol.
CH34	¾	2/0 str.	#10 sol.
CH1BB	1	3/0 str.	#10 sol.

Lay-in lug connectors

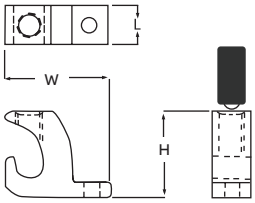
Copper lay-in lug connectors

- Ideal for swimming pool grounding applications
- Carries “DB” marking for direct burial
- Open-faced design enables installer to quickly lay in the grounding conductor as a jumper to multiple conduits with no break in the ground conductor

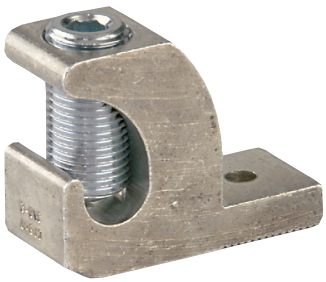
DB

	Conductor range		Stud size		Dimensions					
					H		W		L	
Cat. no.	AWG	mm²	in.	mm	in.	mm	in.	mm	in.	mm
CULL414	4-14	16-1.5	0.22	5.59	0.78	19.81	0.38	9.65	1.07	27.18
CULL414TP*	4-14	16-1.5	0.22	5.59	0.78	19.81	0.38	9.65	1.07	27.18

Diagram



* Tin-plated.
90 °C rating.



Blackburn lay-in lug

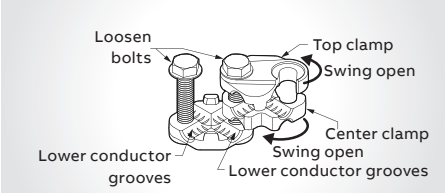
	Conductor range		Stud size	
Cat. no.	AWG	mm²	in.	mm
LL414	#4–#14	16–1.5	0.22	5.59
LL1014	1/0–#14	50–1.5	0.27	6.86
LL306	3/0–#6	70–16	0.33	8.38
LL2506	250–#6	120–16	0.33	8.38

These grounding connectors are dual rated for aluminum and copper conductors.
The open-face design allows the installer to quickly lay in the grounding conductor as a jumper.

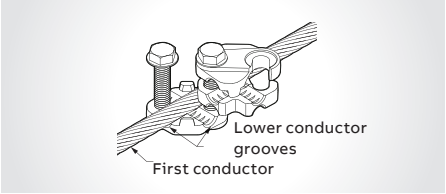
Lay-in lug connectors

Mechanical lay–in ground connector

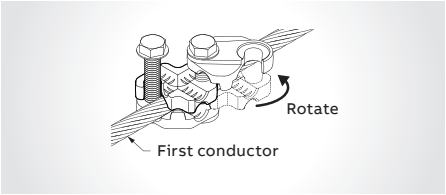
Cat. no.	Range (AWG or kcmil)	Torque
MLG25020	250 through 2/0 stranded	40 feet/pounds



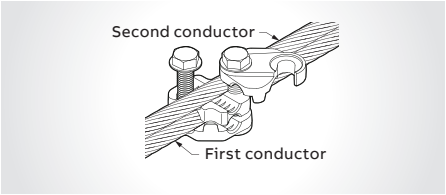
Step 1
- Open grounding connector by loosening bolts
- Swing top and center clamps to the side to expose lower conductor grooves.



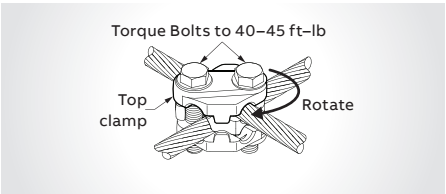
Step 2
- Lay in first conductor into lower conductor groove



Step 3
- Rotate center clamp into position over first conductor



Step 4
- Lay in second conductor into center clamp conductor groove (parallel conductor style is shown)



Step 5
- When conductors are in place, rotate top clamp over the second conductor and torque bolts to 40–45 ft-lb (cross conductor style is shown)

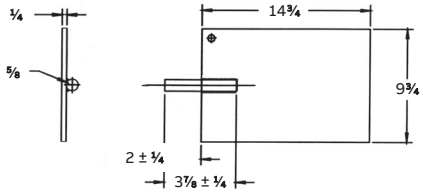
Ground plates

Galvanized grounding plates

- Made of high-quality steel, hot dip galvanized
- Major time and cost savings vs ground rods

Cat. no.	Description	Wire range (AWG)	Std. pkg.
1016TB	Galvanized grounding plate	#8 sol. to 3/0 str.	1
1016BTB	Galvanized grounding plate (complete with JAB34C connector)	#8 sol. to 3/0 str.	1

Diagrams

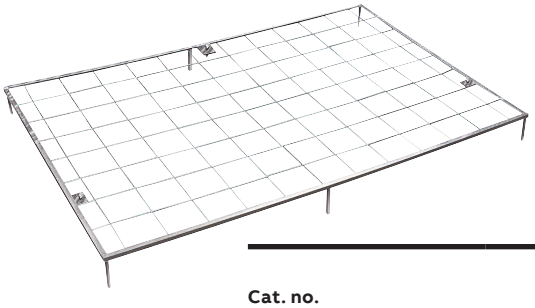


* CSA not applicable.

Ground electrode boxes

Cat. no.	Description
51628	Pregalvanized steel
51629	Hot dip galvanized steel
51628-ALTA	Ground electrode box for Alberta only

14 gauge steel, 10 in. diameter, 12 in. depth.



Metallic gradient control mats

- To reduce risk and prevent build up of dangerous potential differences between high-voltage equipment or structures and the user standing on the ground surface. CEC Rule 36-308.

			Wt./100	
Cat. no.	Description	Std. pkg.	lb	kg
64663	Mat with hardware	1	3000	1363

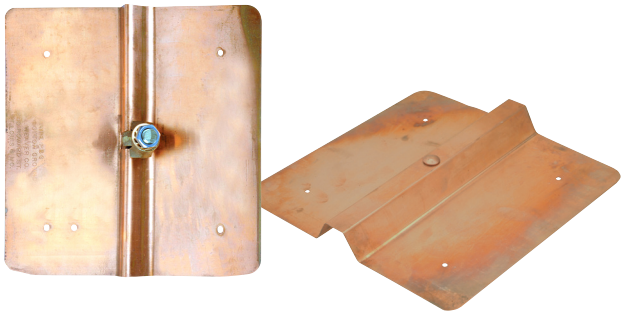
4 ft. x 6 ft. hot dip galvanized mat is made from 6 in. x 6 in. welded mesh. ¼ in. diameter.
With hardware 3½ x ½ galvanized bolts, 3 galvanized washers and 3 galvanized nuts.
Custom ground mat also available upon request.

Ground plates

Type GP – Copper pole bottom ground plates for multigrounded neutral construction

- More efficient than butt wrapping poles
- Made of electrolytic sheet copper
- Built-in high-pressure connector for ground lead, or supplied with #6 AWG copper pigtail pre-attached
- Plates are grooved for trapping moisture

			Pigtail wire range		Diameter of plate	
Cat. no.	**Min. (AWG)**	**Max. (AWG)**	**Min. (mm^2)**	**Max. (mm^2)**	**(in.)**	**(mm)**
GP100	#8	#2 sol.	6.3	25.6	7½	191
GP110			6.3	25.6	10	254
GP114			6.3	25.6	14	356
GP1003	#6 AWG solid Cu pigtail with 18 in. conductor		–	–	7½	191
GP1008	#6 AWG solid Cu pigtail with 18 in. conductor		–	–	7½	191
GP1108	#6 AWG solid Cu pigtail with 18 in. conductor		–	–	7½	254



Type PB — Copper pole ground plates

- Installed on butt end of utility poles to provide an economical, low resistance neutral ground
- Installed cost considerably less than butt-wrapped poles. Plate portion fabricated of 0.025 in. pure copper.
- PBGW connector is eye-bolt type, cast of corrosion-resistant aluminum bronze alloy, with silicon bronze nut and lock washer. Riveted all-copper terminal lug is an integral part of the PBH, and provides the means of connection to the grounding conductor.

	Wire range (AWG)			
Cat. no.	**Max.**	**Min.**	**Finished size (in.)**	**Surface area (sq. in.)**
PBGW	2/0 str.	#10 sol.	7 x 7⅝	56
PBH*	#4 str.	#14 sol.	7 x 7⅝	56

* RUS Listed.

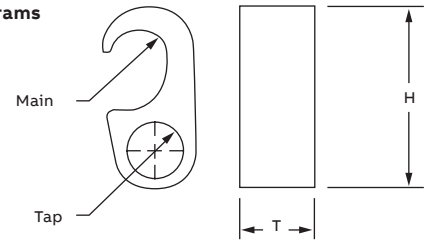
Ground tap connectors

Figure 6 compression ground tap connectors
- Material: High-conductivity copper
- Acceptable for direct burial

DB Meets **IEEE** 837 requirements

Cat. no.	Application (AWG or kcmil) Main	Application (AWG or kcmil) Tap	Cable to rebar application* Main	Cable to rebar application* Tap (AWG or kcmil)	Dimensions in. (mm) T	Dimensions in. (mm) H	Dies for TBM14M, 13100A or TBM15I	Number of crimps
54855	1/0 str.–250 or ½ in.–⅝ in. rod	#4 sol.–#2 str.	#3 Rebar ⅜ thru ½ in. #4 rebar	#4 sol.–#2 str.	0.75 (19.1)	1.94 (49.3)	15G86R	1
54860		1/0 str.–2/0 str.		1/0 str.–2/0 str.	0.75 (19.1)	2.19 (55.6)	15G86R	1
54865-CK		3/0 str.–250		3/0 str.–250	0.75 (19.1)	2.19 (55.6)	15G86R	1
54875	#6 sol.–#2 str.	#6 sol.–#2 str.	–	–	0.75 (19.1)	2.56 (65.0)	15501A	1
54885	250–500 or ⅝ in.–¾ in. rod	#4 sol.–#2 str.	–	–	0.75 (19.1)	1.94 (49.3)	15G126R	1
54890	250–500 or ⅝ in.–¾ in. rod	1/0 str.–2/0 str.	#5 Rebar ⅝ thru ¾ in. #6 rebar	1/0 str.–2/0 str.	0.75 (19.1)	2.13 (54.1)	15G126R	1
54895		3/0 str.–250		3/0 str.–250	0.75 (19.1)	2.19 (55.6)	15G126R	1
54900		350–500		350–500	1.38 (35.1)	2.44 (62.0)	15G121R	3

Diagrams



* CSA not applicable.
Tin-plated version of galvanized ground rods available. Add suffix -TP to cat. no.
Use 15500TB adaptor for TBM15I 15-ton tool.

Meets **IEEE** 837-2014 requirements

Cat. no.	Application Main	Application Tap (AWG or kcmil)	Dies for ABB tools (Figure 2)	L (in.)
54865-CKN*	⅝ in. rod	3/0 str.–250	15506SS	1½
54860N	⅝ in. rod	1/0 str.–2/0 str.	15506SS	1½
54855N	⅝ in. rod	#4 sol.–#2 str.	15506SS	1½
54875N	#6 sol. – #2 str.	#6 sol.–#2 str.	15517SS	1½

Diagrams

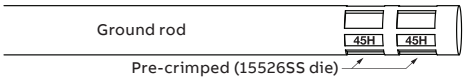


Figure 1

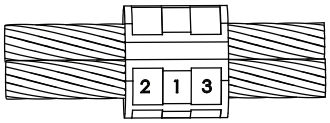
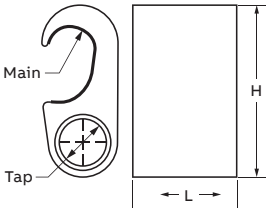


Figure 2 – Requires 3 crimps



All parts ending by the letter N are IEEE837-2014 compliant.
Use hydraulic tool 13100A, TBM14M TBM14CR-LI, TBM15CR-LI, TBM15, or TBM15I with die indicated in chart.
Use 15500TB adaptor for TBM15I 15-ton tool.

IMPORTANT: For 54865-CKN only. To be in compliance with IEEE837-2014, the ground rod should be pre-crimped with die 15526SS (45H) as shown in Figure 1.

Ground rod tap connectors

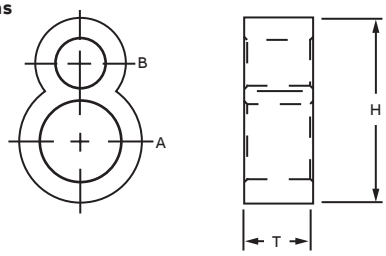
Figure 8 compression ground rod tap connectors

- Material: High-conductivity copper
- Acceptable for direct burial

Meets **IEEE** 837 requirements

Cat. no.	A (in.) Ground rod	B Cable range (AWG or kcmil)	Dimensions in. (mm) T	Dimensions in. (mm) H	Dies for TBM14M 13100A or TBM15I	Number of crimps
GR12-202*	½	#2–2/0	0.88 (22.4)	1.94 (49.3)	15G121R	2
GR58-202*	⅝	#2–2/0	0.88 (22.4)	1.97 (50.0)	15G121R	2
GR34-202*	¾	#2–2/0	0.88 (22.4)	2.19 (55.6)	15G121R	2
GR1-202	1	#2–2/0	0.88 (22.4)	2.56 (65.0)	15G121R	2
GR12-40250*	½	4/0–250	0.88 (22.4)	1.94 (49.3)	15G121R	2
GR58-40250*	⅝	4/0–250	0.88 (22.4)	2.13 (54.1)	15G121R	2
GR34-40250*	¾	4/0–250	0.88 (22.4)	2.19 (55.6)	15G121R	2
GR1-40250	1	4/0–250	0.88 (22.4)	2.44 (62.0)	15G121R	2
GR58-300500*	⅝	300–500	0.88 (22.4)	2.13 (54.1)	15G121R	2
GR34-300500*	¾	300–500	0.88 (22.4)	2.44 (62.0)	15G121R	2
GR1-300500	1	300–500	0.88 (22.4)	2.69 (68.3)	15G121R	2

Diagrams



*Tin-plated version of galvanized ground rods available. Add suffix -TP to cat. no.
Use 15500TB adaptor for TBM15I 15-ton tool.
Optional ground rod knurling die for 14- and 15-ton tools: 15508. Knurling tool: 240-31565-94.

Ground rod to grid connectors

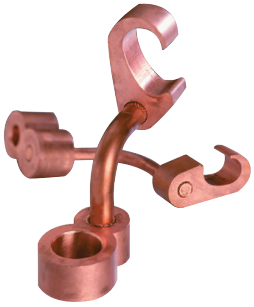
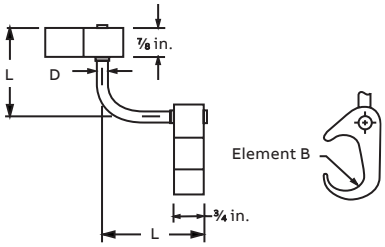


Figure 6 to 8 compression ground rod to grid connectors

DB Meets **IEEE** 837 requirements

Cat. no.	A in. (mm) Ground rod	B Cable range (AWG or kcmil)	Dimensions in. (mm) D	L	Dies for TBM14M, 13100A or TBM15I Element A	Element B
54855LR12*	½ (12.7)	#2–250	0.31 (7.8)	2.50 (63.5)	15G121R	15G86R
54885LR12*	½ (12.7)	250–500	0.31 (7.8)	2.50 (63.5)	15G121R	15G126R
54865LR58*	⅝ (16.0)	#2–250	0.31 (7.8)	2.50 (63.5)	15G121R	15G86R
54895LR58*	⅝ (16.0)	250–500	0.31 (7.8)	2.50 (63.5)	15G121R	15G126R
54875LR34*	¾ (19.1)	#2–250	0.50 (12.7)	2.63 (66.8)	15G121R	15G86R
54900LR34*	¾ (19.1)	250–500	0.50 (12.7)	2.63 (66.8)	15G121R	15G126R
54910LR100	1 (25.4)	#2–250	0.50 (12.7)	2.63 (66.8)	15G121R	15G86R
54920LR100	1 (25.4)	250–500	0.50 (12.7)	2.63 (66.8)	15G121R	15G126R

Diagrams



*Tin-plated version available for galvanized ground rods. Add suffix -TP to cat. no.

Ground grid connectors

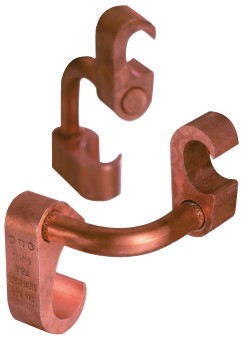


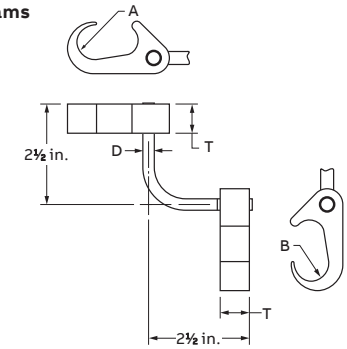
Figure 6 to 6 compression ground grid connectors

- Material: High-conductivity copper
- Acceptable for direct burial

DB Meets **IEEE** 837 requirements

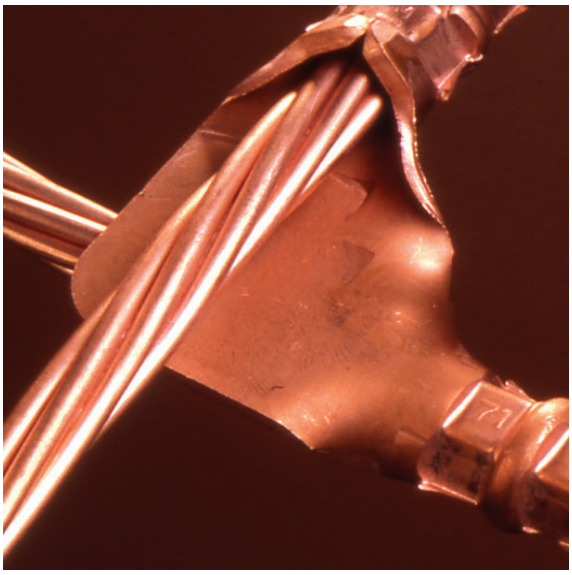
Cat. no.	A Cable range (AWG or kcmil)	B to cable range (AWG or kcmil)	B to ground rod	B to rebar	D (in.)	T (in.)	Dies for ABB tool* A	Number of crimps	B	Number of crimps
54900L	250–500	250–500	⅝ in.–¾ in. rod	#5-#6 (⅝ in.–¾ in.)	¾	1⅛	15G121R	3	15G121R	3
54895L	#2 str.–250	250–500	⅝ in.–¾ in. rod	#5-#6 (⅝ in.–¾ in.)	½	¾	15G86R	1	15G126R	1
54885L	#6 sol.–#2 str.	250–500	⅝ in.–¾ in. rod	#5-#6 (⅝ in.–¾ in.)	⅝	¾	15501A	1	15G126R	1
54875L	#2 str.–250	#2 str.–250	½ in.–⅝ in. rod	#3-#4 (⅜ in.–½ in.)	½	¾	15G86R	1	15G86R	1
54865L	#6 sol.–#2 str.	#1 str.–250	½ in.–⅝ in. rod	#3-#4 (⅜ in.–½ in.)	5/16	¾	15501A	1	15G86R	1
54855L	#6 sol.–#2 str.	#6 sol.–#2 str.	–	–	5/16	¾	15501A	1	15501A	1

Diagrams



*Use hydraulic tool 13100A, TBM14CR-LI, TBM14M, TBM15CR-LI, TBM15, or TBM15I or with die marked on cat. no.
Use 15500TB adaptor for 15-ton tool TBM15I.

Cable-to-cable or cable-to-rod connectors



One-piece construction for cable-to-cable, cable-to-rod, "T" and "X" connections

- Suitable for direct burial or in concrete
- Replaces exothermic welds
- Made from high-conductivity wrought copper

DB Meets **IEEE** 837 requirements

	Cable to cable range								Rod to cable range					
Cat. no.	Main (AWG or kcmil)	Die code	TBM14 and 15 Die cat. no.	Number of crimps	Branch (AWG or kcmil)	Die code	TBM14 and 15 Die cat. no.	Number of crimps	Ground rod (in.)	Die code	TBM14 and 15 Die cat. no.	Cable (AWG or kcmil)	Die code	TBM14 and 15 Die cat. no.
GG21-21	#2 or #1	45	15526SS	2	#2 or #1	45	15526SS	2	–	–	–	–	–	–
GG10-10	1/0	54	15511SS	2	1/0	54	15511SS	2	–	–	–	–	–	–
GG2030-21	2/0 or 3/0	60	15532SS	2	#2 or #1	50–45	15526SS 15530SS	2	–	–	–	–	–	–
GG2030-10	2/0 or 3/0	60	15532SS	2	1/0	54H	15511SS	2	–	–	–	–	–	–
GG2030-2030	2/0 or 3/0	60	15532SS	2	2/0–3/0	60	15532SS	2	–	–	–	–	–	–
GG40250-21	4/0 or 250	71H	15514SS		#2	45 50	15526SS 15530SS	2	½ ⅝	71 80H	15514SS 15517SS	#2 or #1 #2 or #1	45 50	15526SS 15530SS
GG40250-10	4/0 or 250	71H	15514SS		1/0	54H	15511SS	2	½ ⅝	71 80H	15514SS 15517SS	1/0	54	15511SS
GG40250-2030	4/0 or 250	71H	15514SS		2/0 or 3/0	60	15532SS	2	½ ⅝	71 80H	15514SS 15517SS	2/0 or 3/0 2/0 or 3/0	60 60	15532SS 15532SS
GG40250-40250	4/0 or 250	71H	15514SS		4/0 or 250	71H	15514SS	2	½ ⅝	71 80H	15514SS 15517SS	4/0 or 250 4/0 or 250 4/0 or 250	71H 71H 71H	15514SS 15514SS
GG500-40250	500	87H	15506SS		4/0 or 250	71H	15514SS	2	¾ ⅝	87H	15506SS	4/0 or 250 4/0 or 250 4/0 or 250	71H 71H 71H	15514SS 15514SS
GG500-500	500	87H	15506SS		500	87H	15506SS	2	¾ ⅝	87H	15506SS	500	87H	15506SS
GG500-350	500	87H	15506SS		350	80H	15606SS	2	¾ ⅝	87H	15506SS	350	80H	15506SS
GG500-2030	500	87H	15506SS		2/0 or 3/0	60	15532SS	2	¾ ⅝	87H	–	2/0 or 3/0	60	15532SS
GG350-350	350	80H	15506SS		350	80H	15606SS	2	–	–	–	–	–	–

Uses 15500TB adaptor for 15-ton tools.
Optional ground rod knurling die or TBM14 and 15 tools: 15508SS.
Optional ground rod knurling tool: 240-31565-94.

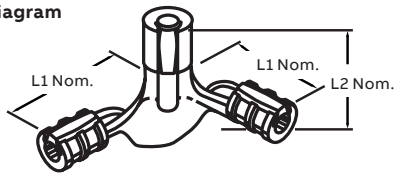
Two cables to ground rod

For connecting perpendicular runs of stranded copper cable to ground rod

DB

Cat. no.	Cable size (AWG or kcmil) Main	Cable size (AWG or kcmil) Tap	Ground rod dia. (in.)	Cable and rod installing dies for TBM14 and 15 — Ground cable: Die code	Ground cable: Cat. no.	Ground cable: Number of crimps	Ground rod: Die code	Ground rod: Cat. no.	Ground rod: Number of crimps	Overall dimensions in. (mm) L1	Overall dimensions in. (mm) L2
53065-58GR	250 or 4/0	250 or 4/0	⅝ and ½	87H	15506SS	2	87H	15506SS	2	4.94 (125.5)	3.25 (82.6)
53065-34GR	250 or 4/0	250 or 4/0	¾	87H	15515SS	2	106H	15515SS	2	4.94 (125.5)	3.25 (82.6)

Diagram

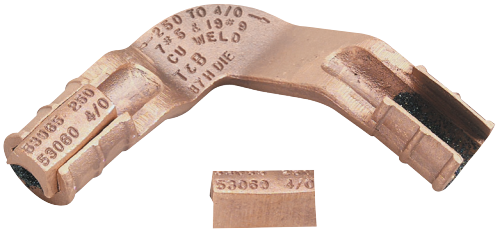


Use T&B hydraulic tools with hex crimp dies.
Optional ground rod knurling die for TBM14 and 15 Tools: 15508SS.
Optional ground rod knurling Tool: 240-31565-94.
Use 15500TB adaptor for TBM15-Ton Tool.

Cable size (AWG or kcmil)	Reinforcing rod size	Copperweld* conductor size
#2, #1	–	3 #8 or 3 #6
1/0, 2/0	#3	⅜ (7 #8) or 7/16 (7 #7)
4/0, 250	#4	7/16 (19 #9) or (7 #5)
300–350	#5	21/32 (19 #8) or ⅝ (7 #4)
500	#6	13/16 (19 #6)

* Reg. Trademark Copperweld Corporation.
UL listed for use with cast copper connectors.

Grounding grid connectors



53065

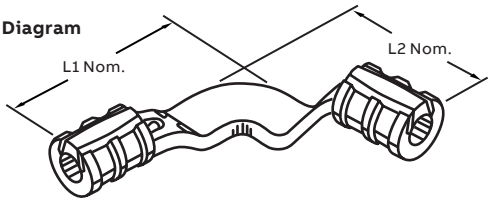
53055

Heavy-duty cast copper**

DB

Cat. no.	Rod to cable range: Rod size (in.)	Rod to cable range: Cable range (AWG or kcmil)	Cable to cable range rod (AWG or kcmil): Main	Cable to cable range rod (AWG or kcmil): Branch	Cable and rod installing dies for TBM14 and 15: Die code	Cat. no.	Number of crimps	Die code	Cat. no.	Number of crimps	Overall dimensions in. (mm): L1	L2
53055	–	–	1/0–2/0	1/0–2/0	–	–	–	66	15534SS	1	3.88 (98.6)	3.88 (98.6)
53059*	½–⅝	#2–#1	4/0–250	#2–#1	87H	15506SS	2	54H	15511SS	2	4.16 (105.7)	4.56 (115.8)
53060*	½–⅝	1/0–2/0	4/0–250	1/0–2/0	87H	15506SS	2	87H	15506SS	2	4.44 (112.8)	4.44 (112.8)
53065*	½–⅝	4/0–250	4/0–250	4/0–250	87H	15506SS	2	87H				
53069*	¾	1/0–2/0	300–350	1/0–2/0	106H	15515SS	2	66	15534SS	1	4.59 (116.6)	4.59 (116.6)
53071*	¾	4/0–250	300–350	4/0–250	106H	15515SS	2	106H	15515SS	2	5.25 (133.4)	4.78 (121.4)
53073*	1	1/0–2/0	500	1/0–2/0	125H	15603	3	66	15534SS	1	4.81 (122.2)	4.88 (124.0)
53075*	1	4/0–250	500	4/0–250	125H	15603	3	87H	15506SS	2	6.56 (166.6)	5.00 (127.0)
53080*	1	500	500	500	125H	15603	3	125H	15603	3	5.19 (131.8)	5.19 (131.8)

Diagram



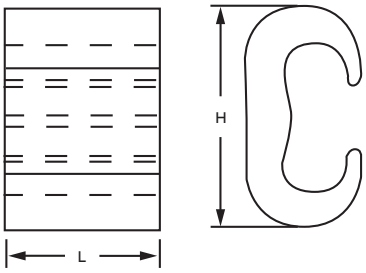
* 4/0–250 wire barrels suitable for ½ in. and ⅝ in. rod, 300–500 kcmil wire barrels suitable for ¾ in. rods, 500 kcmil wire barrels suitable for 1 in. rods.
** Do not meet IEEE837.
Cat. no. 15500TB adaptor is required for all 15500SS series dies, not for 15600SS series, crimp with 15-ton tools.
Hydraulic tools only.

C-Taps

DB Meets **IEEE** 837 requirements

Cat. no.	Cable range (AWG or kcmil) Main	Tap	Dimensions in. (mm) H	L	Dies for TBM14M, 13100A or TBM15I*	Crimps
CTP22	#6 sol.–#2 str.	#6 sol.–#2 str.**	1.16 (29.5)	0.75 (19.1)	HBKC	1
CTP202	#1 str.–2/0 str.	#6 sol.–#2 str.**	1.41 (35.8)	0.75 (19.1)	15501A	1
CTP2020	#1 str.–2/0 str.	#1 str.–2/0 str.	1.54 (39.1)	0.75 (19.1)	15501A	1
CTP25020	3/0 str.–250	#6 sol.–2/0**	1.97 (50.0)	0.75 (19.1)	15G86R	1
CTP250250	3/0 str.–250	3/0 str.–250	2.06 (52.3)	0.88 (22.4)	15G86R	1
CTP50020	300–500	#6 sol.–2/0**	2.42 (61.5)	0.88 (22.4)	15G121R	2
CTP500250	300–500	3/0 str.–250	2.67 (67.8)	0.88 (22.4)	15G121R	2
CTP500500†	300–500	300–500	2.91 (73.9)	1.10 (27.9)	15G121R	3

Diagrams



* Cat. no. 15500 adaptor required if using TBM15I and 155XX series dies.
** #6 AWG branch must be doubled.
† Must use TBM15I tool
Material: High-conductivity copper.

C-Taps

DB Meets **IEEE** 837 requirements

Cat. no.	Ø A cable (AWG or kcmil)	Ø B cable (AWG or kcmil)	H (in.)	L (in.)	Crimps	Dies for tools*
CTP22N	#6 sol.–#2 str.	#6 sol.–#2 str.	1 5/32	1½	3	15534SS (Fig.1)
CTP202N	#1 str.–2/0 str.	#6 sol.–#2 str.	1 13/32	1½	3	15517SS (Fig.1)
CTP2020N	#1 str.–2/0 str.	#1 str.–2/0 str.	1 9/16	1½	3	15517SS (Fig.1)
CTP25020N	3/0 str.–250	#1 str.–2/0 str.	1 31/32	1½	3	15506SS (Fig.1)
CTP250250N†	3/0 str.–250	3/0 str.–250	2 1/16	1½	3	15506SS (Fig.1)
CTP500250N	300–500	3/0 str.–250	2.72	2.5	5	15603SS
CTP50020N	300–500	#6 sol.–2/0 str.	2.42	2.5	5	15603SS
CTP500500N**	300–500	300–500	2.92	2.5	5	15G121N

Diagrams

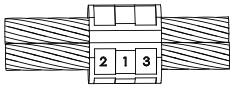
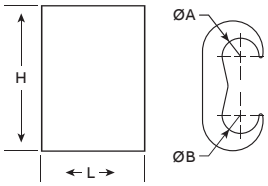
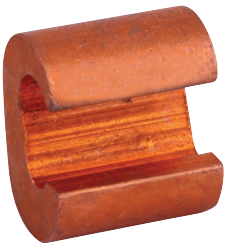


Figure 1 – Requires 3 crimps



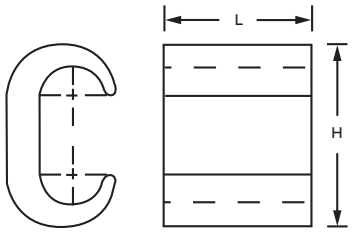
* These dies may be used with the TBM15CR-LI or TBM15I compression tools. Please note that the die adapter 15500-TB is required for use with these tools.
**Can be used with ¾ in. (17.3 mm) copper-clad ground rod. The ground rod must be pre-crimped with die 15507SS to comply with IEEE 837-2014.
† Can be used with ⅝ in. (15.8 mm) copper-clad ground rod. The ground rod must be pre-crimped with die 15526SS to comply with IEEE 837-2014.



Copper C-crimps wire combinations**

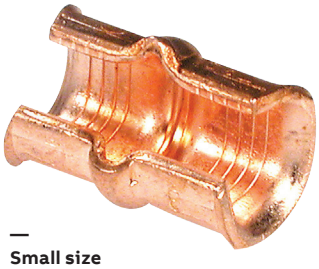
Cat. no.	Cable range (AWG) Run	Cable range (AWG) Tap	Die index	Manual tool OD series	Installing die 14- and 15-ton tools	Dimensions in. (mm) L	Dimensions in. (mm) H
BC48	6 sol.–4 str.	8 sol.–8 str.	BG or ⅝	BY31	B58CS	0.64 (16.3)	0.56 (14.2)
BC46-BB	6 sol.–4 str.	6 sol.–6 str.	BG or ⅝	BY31	B58CS	0.64 (16.3)	0.75 (19.1)
BC44	6 sol.–4 str.	4 sol.–4 str.	BG or ⅝	BY31	B58CS	0.64 (16.3)	0.80 (20.3)
BC24	2 sol.–2 str.	8 sol.–4 str.	C	BY33	HBKC	0.75 (19.1)	0.98 (24.9)
BC22	2 sol.–2 str.	2 sol.–2 str.	C	BY33	HBKC	0.75 (19.1)	1.05 (26.7)
BC202	1/0 sol.–2/0 str.	8 sol.–2 str.	E or O	–	HO	0.94 (23.9)	1.31 (33.3)
BC2020-BB	1/0 sol.–2/0 str.	1/0 str.–2/0 str.	E or O	–	HO	0.94 (23.9)	1.34 (34.0)
BC402	3/0 str.–4/0 str.	6 sol.–2 str.	F or D3	–	HD	1.06 (26.9)	1.63 (41.4)
BC4020	3/0 str.–4/0 str.	1/0 sol.–2/0 str.	F or D3	–	HD	1.06 (26.9)	1.63 (41.4)
BC4040	3/0 str.–4/0 str.	3/0 sol.–4/0 str.	F or D3	–	HD	1.06 (26.9)	1.63 (41.4)

Diagrams



**Do not meet IEEE 837.

C-Taps



Small size

Cat. no.	Code wire comb. (AWG) Main	Code wire comb. (AWG) Branch	Die Group 1	Die TMB62PCR-LI	Die Smart™ Tools	Die Group 2	Die Group 3	Insulation choice Adhesive	Insulation choice Shrink tubing	Dimensions in. (mm) L	Dimensions in. (mm) H	Colour code
54705	#12	#14	6TON21SS	TBM6221	–	•	•	AC5X3	HS12-6	0.31 (7.9)	0.31 (7.9)	Red
	#14	#16	6TON21SS	TBM6221	–	•	•	AC5X3	HS12-6	0.31 (7.9)	0.31 (7.9)	
54710	#10	#10	6TON24SS	TBM6224	–	•	•	AC5X3	HS12-6	0.56 (14,2)	0.44 (11.2)	Blue
	#8	#12	6TON24SS	TBM6224	–	•	•	AC5X3	HS12-6	0.56 (14,2)	0.44 (11.2)	
54715	#6	#10, 12	6TON29SS	TBM6229	–	•	•	AC5X3	HS12-6	0.56 (14.2)	0.63 (16.0)	Grey
	#8	#8, 10, 12	6TON29SS	TBM6229	–	•	•	AC5X3	HS12-6	0.56 (14.2)	0.63 (16.0)	
54720	#4 ou 5		6TON33SS	TBM6233	TBM8-750C20	•	•	AC5X3	HS6-1	1.16 (29.5)	0.69 (17.5)	Brown
	#6	#6, 8	6TON33SS	TBM6233	TBM8-750C20	•	•	AC5X3	HS6-1	1.16 (29.5)	0.69 (17.5)	
54725	#3	#6, 8, 10, 12***	6TON37SS	TBM6237	TBM8-750C2530	•	•	AC5X3	HS6-1	1.16 (29.5)	0.81 (20.6)	Green
	#4 ou 5	#6, 5	6TON37SS	TBM6237	TBM8-750C2530	•	•	AC5X3	HS6-1	1.16 (29.5)	0.81 (20.6)	
54730	#2	#6, 8, 10, 12	6TON42SS	TBM6242	TBM8-750C2530		•	AC5X3	HS6-1	1.16 (29.5)	0.84 (21.3)	Pink
	#3	#5	6TON42SS	TBM6242	TBM8-750C2530		•	AC5X3	HS6-1	1.16 (29.5)	0.84 (21.3)	
	#4	#3	6TON42SS	TBM6242	TBM8-750C2530		•	AC5X3	HS6-1	1.16 (29.5)	0.84 (21.3)	
54735	#1	#4, 5, 6, 8, 10, 12	6TON45SS	TBM6245	TBM8-750C3540		•	AC5X3	HS6-1	0.06 (1.5)	0.88 (22.4)	Black
	#2	#4, 5	6TON45SS	TBM6245	TBM8-750C3540		•	AC5X3	HS4-30	0.06 (1.5)	0.88 (22.4)	
	#3	#3, 4	6TON45SS	TBM6245	TBM8-750C3540		•	AC5X3	HS4-30	0.06 (1.5)	0.88 (22.4)	
54740	1/0	#4, 5, 6, 8, 10, 12	6TON50SS	TBM6250	TBM8-750C3540		•	AC5X3	HS4-30	1.69 (42,9)	0.97 (24.6)	Orange
	#1	#3, 4	6TON50SS	TBM6250	TBM8-750C3540		•	AC5X3	HS4-30	1.69 (42,9)	0.97 (24.6)	
	#2	#2, 3	6TON50SS	TBM6250	TBM8-750C3540		•	AC5X3	HS4-30	1.69 (42,9)	0.97 (24.6)	
54745	2/0	#3, 4, 5, 6, 8, 10, 12	6TON54SS	TBM6254	TBM8-750C4550		•	AC5X3	HS4-30	1.69 (42,9)	1.06 (26.9)	Purple
	1/0	#2, 3	6TON54SS	TBM6254	TBM8-750C4550		•	AC5X3	HS4-30	1.69 (42,9)	1.06 (26.9)	
	#1	#1, 3	6TON54SS	TBM6254	TBM8-750C4550		•	AC5X3	HS4-30	1.69 (42,9)	1.06 (26.9)	
54750	3/0	#2, 3, 4, 5, 6, 8, 10, 12	6TON62SS	TBM6262	TBM8-750C4550		•	AC5X3	HS4-30	1.69 (42.9)	1.19 (30.2)	Yellow
	2/0	#1, 2	6TON62SS	TBM6262	TBM8-750C4550		•	AC5X3	HS4-30	1.69 (42,9)	1.19 (30.2)	
	1/0	1/0, 1	6TON62SS	TBM6262	TBM8-750C4550		•	AC5X3	HS4-30	1.69 (42,9)	1.19 (30.2)	

Diagrams

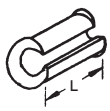


Fig. 1

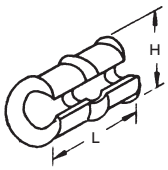


Fig. 2

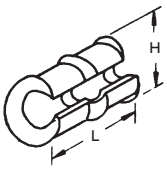


Fig. 3

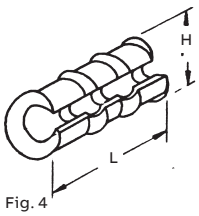


Fig. 4

*** When using #3 AWG on main and #12 AWG on branch with Smart Tools and dies, #12 AWG wire must be doubled (hair-pinned) and placed on branch for crimping.
Group 1 = TBM6H, TBM62PCR-LI, TBM62CR-LI, TBM6UNICR-LI.
Group 2 = TBM45S, TBM41E (require 2 compressions within each crimp area).
Group 3 = TBM4/4S, TBM5S, TBM6S, TBM8/8S, TBM6H (require 1 compression within each crimp area).

C-Taps

Certified to 600 V

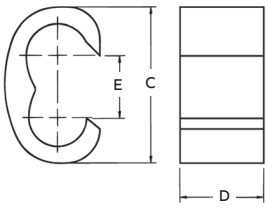
- More economical than other taps and split bolts in terms of purchase, inventory, installation time, insulation and maintenance
- Color-coded for easy matching with proper die
- Barely larger than conductor insulation once installed

Material – High-conductivity wrought copper
Finish – Plain

Large size

Cat. no.	Wire size (AWG or kcmil) Main	Branch	Dimensions in. (mm) C	D	E	Installing die Tool	Cat. no.	Die code	No. of crimps	Colour code
54755	#1	#1	1.93 (49.0)	0.75 (19.1)	0.53 (13.5)	TBM14M	15512SS	76	1	Blue
	1/0	1/0–#2				TBM15I	15512SS*	76		
	2/0	2/0–#3				TBM12	TBM12D-4	76		
	3/0	1/0–#6				13100A	15512SS	76		
	4/0	#1–#8								
54760	2/0	2/0–#1	1.43 (36.3)	0.75 (19.1)	0.59 (15.0)	TBM14M	15506SS	87H	2	Brown
	3/0	3/0–#3				TBM15I	15506SS*	87H		
	4/0	4/0–#4				TBM12	TBM12D-3	87H		
	250	#1–#8				13100A	15506SS	87H		
54765	2/0	2/0–#1	1.68 (42.7)	1.00 (25.4)	0.64 (16.3)	TBM14M	15505SS	99H	2	Pink
	3/0	3/0–#2				TBM15I	15505SS*	99H		
	4/0	4/0–#4				TBM12	TBM12D-2	99H		
	250	3/0–#6				13100A	15505SS	99H		
	300	2/0–#8								
54770	4/0	4/0–2/0	1.68 (42.7)	1.00 (25.4)	0.68 (17.3)	TBM14M	15515SS	106H	2	Black
	250	250–#1				TBM15I	15515SS*	106H		
	300	4/0–#4				TBM12	TBM12D-2	106H		
	350	3/0–#6				13100A	15515SS	106H		
54775**	250	250	1.88 (47.8)	1.25 (31.8)	0.81 (20.6)	TBM14M	15504SS	115H	2	Yellow
	300	300–3/0				TBM15I	15504SS*	115H		
	350	350–1/0				TBM12	TBM12D-1	115H		
	400	300–#2				13100A	15504SS	115H		
	450	250–#4								
	500	250–#6								
54780	350	350–4/0	2.18 (55.4)	1.25 (31.8)	0.82 (20.08)	TBM15I	15603	125H	2	N/A
	400	400–2/0								
	450	450–#1								
	500	500–#2								
54785	750	4/0–#6	2.12 (53.8)	2.00 (50.8)	1.00 (25.4)	TBM15I	15603	125H	3	N/A
54790	750	750–4/0	2.68 (68.1)	2.00 (50.8)	1.31 (33.3)	TBM15I	15603	125H	3	N/A

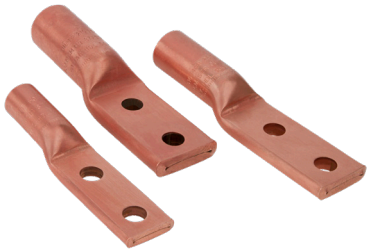
Diagrams



UL approved for direct burial.
For covers see the Color-Keyed compression connector system catalogue.
Taps can be supplied tin-plated. Add suffix "TP" to any cat. no. (i.e. 54725TP).
* Cat. no. 15500TB adaptor required if using TBM15I and 155xx series dies.
** #6 AWG branch must be doubled.
Tooling and die selector chart, see the Color-Keyed tools, dies and kits catalogue.

Copper lugs

Heavy-duty two-hole NEMA lugs



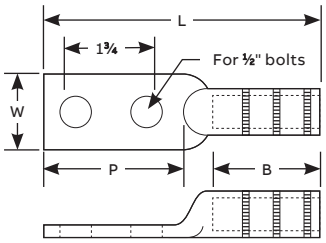
- Heavy-wall lugs for grounding and other critical applications
- Able to handle the most severe heavy-loading applications
- Ease cable insertion

Heavy-duty two-hole NEMA lugs

Meets **IEEE** 837 requirements

Cat. no.	Wire size (AWG or kcmil)	Installing dies*	Dimensions (in.) B	L	P	W
HDL 2 N	#2	15508SS	1½	5¼	3	13/16
HDL 1 N	#1	15526SS	1½	5¼	3	13/16
HDL 1/0 N	1/0	15530SS	1½	5¼	3	13/16
HDL 2/0 N	2/0	15507SS	1¾	5½	3	15/16
HDL 3/0 N	3/0	15532SS	1 11/16	5 3/16	3	1
HDL 4/0 N	4/0	15514SS	1¾	5⅝	3	1⅛
HDL 250 N	250	15517SS	1¾	5⅝	3	1¼
HDL 300 N	300	15506SS	2¼	5 13/16	3	1⅜
HDL 350 N	350	15503SS	2 5/16	6 9/16	3	1 9/16
HDL 500 N	500	15609SS	2⅝	6⅜	3	1¾
HDL 750 N**	750	Consultez votre représentant ABB.	3⅜	7 3/16	3	2 3/16
HDL 1000 N**	1,000	Consultez votre représentant ABB.	4⅝	9⅝	3⅝	2⅝

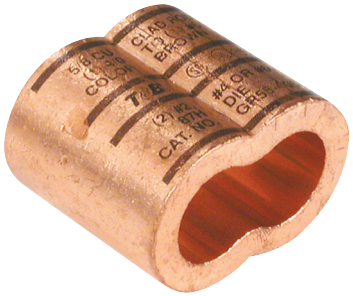
Diagram



Note: For tin plating, add suffix "-TN" after the catalogue number.
For oxide-inhibiting compound, contact your ABB representative.
*These dies may be used with the TBM15CR-LI or TBM15I compression tools. Please note that the die adapter 15500-TB is required for use with these tools.

** Do not meet IEEE 837-2014 requirements.

Pigtail connectors



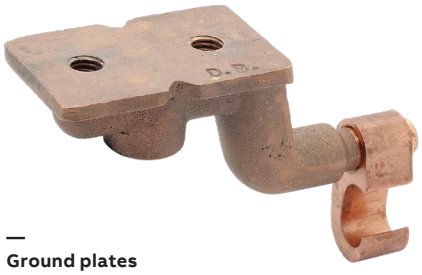
Hex compression intimately bonds directly to copper-clad ground rod

- Figure 8 connectors
- Conforms to IEEE 837 standard
- UL listed

When connecting cable to copper-clad ground rod for direct burial or in concrete, the connector shall be wrought copper with minimum conductivity of 99% I.A.C.S., such as ABB series GR12-306. Hex compression with die code embossing shall be used.

DB Meets **IEEE** 837 requirements

Cat. no.	Cable range (AWG)	Copper clad ground rod (in.)	Die code for TBM14M, TBM15, 13100A or TBM15I	No. of crimps	Die cat. no.
GR12-306	One cable: 3/0 to #6 Two cables: #2 to #6	½	87H	2	15506
GR58-406	One cable: 4/0 to #6 Two cables: #2 to #6	⅝	87H	2	15506
GR34-4010	One cable: 4/0 to 1/0	¾	99H	2	15505



Ground plates

DB

Cat. no.	Fig.	Cable range (AWG or kcmil)	H in. (mm)	No. of crimps	Die code for 14- and 15-ton tools
GP2250-2	1	#2–250	3.63 (92.2)	1	15G86R
GP2250-4	2	#2–250	4.22 (107.2)	1	15G86R
GP250500-2	1	250–500	3.63 (92.2)	2	15G126R
GP250500-4	2	250–500	4.22 (107.2)	2	15G126R

Diagrams

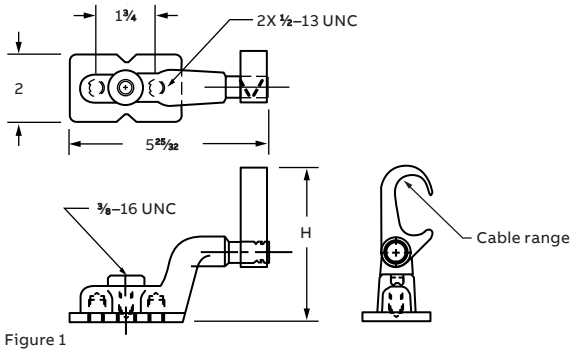


Figure 1

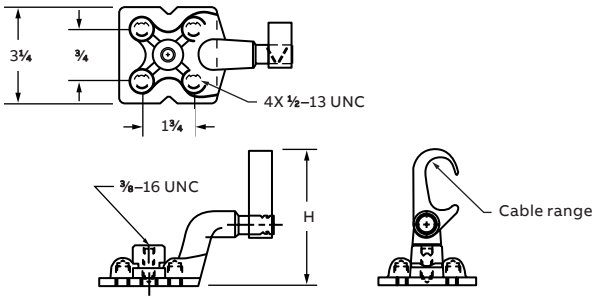


Figure 2

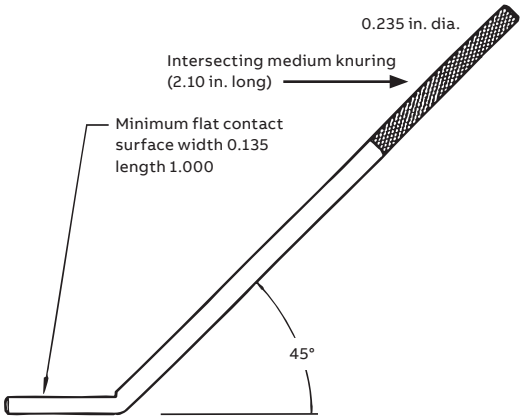
Grounding studs

Type TBGS structural grounding studs
Knurling ensures excellent mechanical pull-out and electrical continuity.

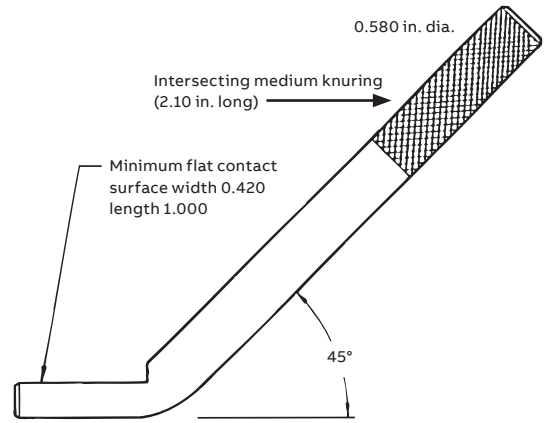
- Easily welded to steel structures with minimal construction welding equipment
- Connect to grounding conductors with appropriate ABB grounding connectors
- Knurled portion of stud resists pull-out and provides electrical continuity to ensure the integrity of the grounding circuit
- Constructed of high-strength steel and coated with corrosion-resistant copper cyanide

Cat. no.	Rod size (in.)
TBGS-14	0.25
TBGS-38	0.38
TBGS-58	0.63
TBGS-34	0.75

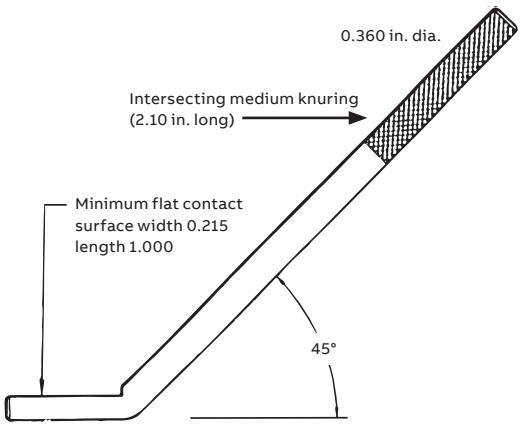
Diagrams



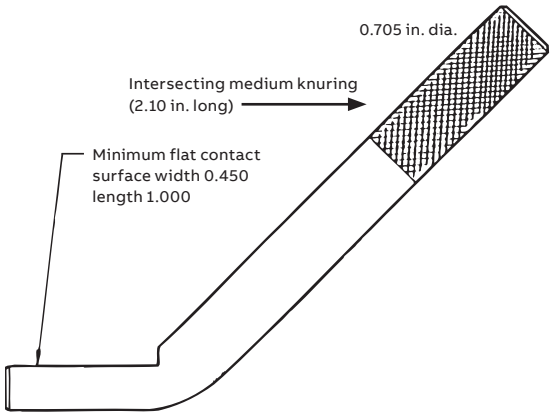
TBGS-14



TBGS-58

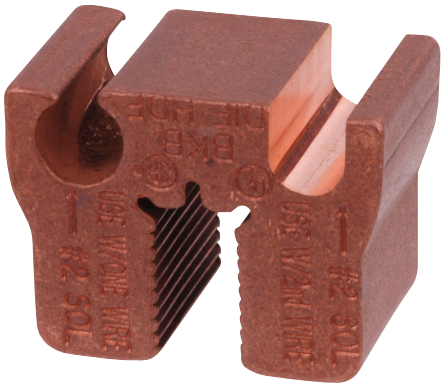


TBGS-38



TBGS-34

Bus bar connectors



Cuts installation time in half – with results superior to conventional connectors

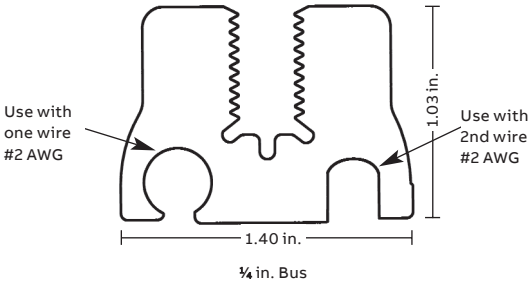
- Unique
- Fast and easy installation
- Superior low-resistance, high-conductivity connections
- Install with conventional compression tools
- Produce a permanent connection with any combination of copper from #6 to #2 AWG solid or stranded conductors, to ¼ in. copper bus bar
- Made from pure wrought copper and prefilled with oxide inhibitor
- CSA certified and UL listed
- Installed with die HDF

EZGround bus bar connectors install in less than 2 minutes with one easy crimp. The connector attaches directly to the bus, saving the labor-intensive process of drilling and tapping. The unique jaw interface of the EZGround bus bar connector grips the copper bus, resulting in a low-resistance, high-conductivity connection.
The EZGround bus bar connectors can be used in OEM applications or telecom applications – cellular, PCS and others. They provide a continuous ground to the copper bus bar, making them ideal for tower applications. The design enables installation in virtually any position, horizontal or vertical, and is suitable for inside and outside plant use. Installation can be completed using tool TBM14, TBM14MC or TBM14CR-LI.

Busbar connectors

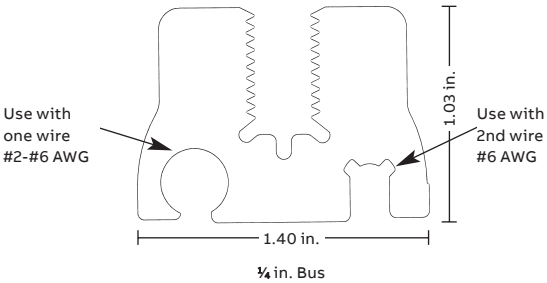
Cat. no.	Ground bus bar (in.)	Conductor range (AWG)	Tools	Die	Std. pkg. qty.
GBBC22	¼	#2–#2	TBM14M, TBM14MC, TBM14CR-LI	HDF	1
GBBC26	¼	#6–#2	TBM14M, TBM14MC, TBM14CR-LI	HDF	1

Diagrams



Cat. no. GBBC22

Use this side of the connector when using only one wire.



Cat. no. GBBC26

Use this side of the connector only when using two wires.

Ground rods

Galvanized ground rods

- Made of high-strength quality cold-drawn steel (1035) hot dip galvanized
- Meets ANSI CI35.30-1979 requirements
- Stainless steel rods are also available (for more detailed information, contact your ABB regional sales office)

	Trade size		Rod size (nominal diameter x length)		Plating thickness		Weight per 100	
Cat. no.	in.	ft.	mm	m	(mils)	Standard packaging	lb	kg
GR5006	½	6	12.7	1.8	4	10	410	186
GR6256	⅝	6	15.8	1.8	4	5	600	272
GR6258 (0.620 – 0.630)	⅝	8	15.8	2.4	4	5	800	363
GR6250 (0.555 – 0.565)	⅝	10	15.8	3.0	4	5	1,000	454
GR6260 (0.620 – 0.630)	⅝	10	15.8	3.0	4	5	1,000	454
GR7506	¾	6	17.3	1.8	4	5	700	318
GR7508 (0.745 – 0.755)	¾	8	17.3	2.4	4	5	1,200	545
GR7510 (0.745 – 0.755)	¾	10	17.3	3.0	4	5	1,500	681

Copper-bonded steel ground rods

- All EZGround ground rods have a heavy uniform covering of electrolytic copper bonded to a rigid steel core
- Copper ions are forced electrically to join with the steel core, establishing a corrosion-resistant bond between the copper and the steel

	Trade size		Rod size (nominal diameter x length)		Plating thickness		Weight per 100	
Cat. no.	in.	ft.	mm	m	(mils)	Standard packaging	lb	kg
5005	½	5	12.7	1.5	10	10	305	138
5006	½	6	12.7	1.8	10	5	370	168
5008	½	8	12.7	2.4	10	5	545	247
5010	½	10	12.7	3.0	10	5	611	277
6256	⅝	6	15.8	1.8	10	5	508	230
6258*	⅝	8	15.8	2.4	10	5	678	308
6260*	⅝	10	15.8	3.0	10	5	847	384
7508*	¾	8	17.3	2.4	10	5	992	450
7510*	¾	10	17.3	3.0	10	5	1,240	462
1010*	1	10	25.4	3.0	10	1	2,248	1,020

* Ground rods are UL listed (425H), except for regular rods shorter than 8 ft. or less than ½ in.
cULus lists rods ½ in. and larger, 10 ft. and longer.

Knurling die for 14- and 15-ton tools

Cat. no.	Description
15508SS	For ⅝ in. and ¾ in. ground rods

Used to knurl ground rods in order to increase the pullout value of the compression connection by as much as 20%. Use hand knurling tool cat. no. 240-31565-94 for all ground rods.

Ground rods

Sectional-type ground rods

- Sectional-type ground rods have the same high quality as regular copper-bonded steel ground rods and are threaded top and bottom

	Trade size		Rod size (nominal diameter x length)					Weight per 100	
Cat. no.	in.	ft.	mm	m	Plating thickness (mils)	Thread size	Standard packaging	lb	kg
5008LS	½	8	12.7	2.4	10	9/16–12	5	546	248
5010LS	½	10	12.7	3.0	10	9/16–12	5	682	309
6258S	⅝	8	15.8	2.4	10 mils	⅝–11	5	670	308
6260S	⅝	10	15.8	3.0	10 mils	⅝–11	5	837	384
7506S	¾	6	17.3	1.8	5 mils	¾–10	5	774	160
7508S	¾	8	17.3	2.4	10 mils	¾–10	5	992	450
7510S	¾	10	17.3	3.0	10 mils	¾–10	5	1,040	562
1010S	1	10	25.4	3.0	10 mils	8–1	1	2,248	1,020

cULus lists rods ½ in. and larger, 10 ft. and longer.

Couplings

- Threaded couplings are made of high-strength, corrosion-resistant alloy. Streamlined design reduces driving friction. Couplings are tapped for use on all standard threaded sectional rods.

Cat. no.	Rod size diameter (in.)	Thread size (UNS)	Standard packaging	Weight per 100 (lb)
50LC	½	9/16 po – 12	25	17
60C	⅝	⅝ po – 11	25	25
70C	¾	¾ po – 10	25	38
80C	1	1 – 8	10	75

Driving studs

- Driving studs of high-strength steel
- May be used with all standard threaded couplings

Cat. no.	Rod size diameter (in.)	Thread size (UNS)	Standard packaging	Weight per 100 (lb)
50LDS*	½	9/16 in. – 12	10	16
60DS*+	⅝	5/8 in. – 11	25	23
70DS*	¾	3/4 in. – 10	5	35
80DS	1	1 – 8	10	75

* UL Listed
\+ CSA Certified

Ground rods

Threadless couplings and driving caps for standard copper bonded ground rods

Threadless couplings

- For joining non-threaded, sectional, copper-bonded, steel ground rods
- Coupling is manufactured of a high-strength, corrosion-resistant silicon bronze

Threadless driving caps

- Prevent “mushrooming” of ground rod while driving to ensure proper fit of coupling
- Driving cap is manufactured of high-strength, hardened steel

		Dimensions (in.)			
Cat. no.	**Size (in.)**	**Length**	**Diameter**	**Standard packaging**	**Weight per 100 (lb)**
Threadless couplings					
50CNT	½	3.0	0.78	25	34
60CNT2	⅝	2.5	0.69	25	34
70CNT	¾	3.0	0.97	25	31
Driving caps					
60DSNT *	⅝	4.0	0.88	10	43

* UL not applicable

Ground rod drivers

Photo includes ground rod driver and insert.

For installing ground rods, there's no safer, simpler or more effective tool than the ABB ground rod driver. It can be used on all types of ground rods including copper-bonded, galvanized and stainless steel.

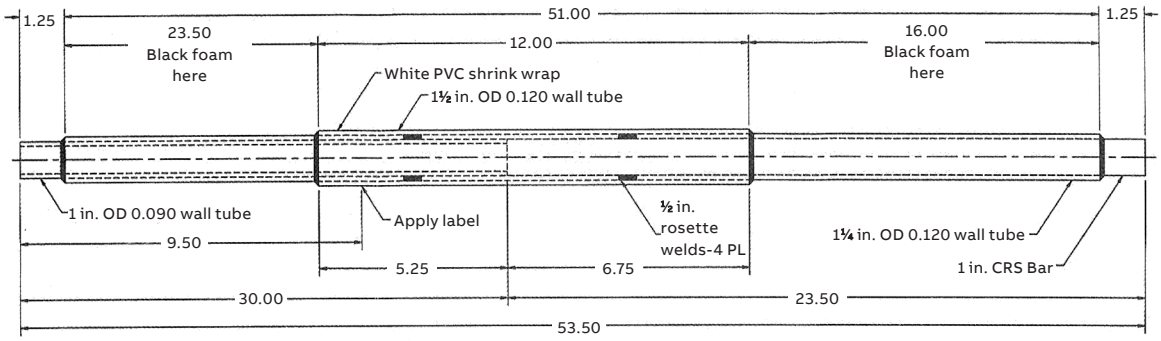
Integral inserts prevent the driver from slipping off the rod near ground level. The inserts are ⅝ in. and ¾ in., and are interchangeable with the standard driver body. The convenient retaining collar holds the insert in the tool when not in use. ABB ground rod drivers have a heavy-duty steel construction that allows maximum force for driving ground rods, while the efficient design ensures that minimal lifting force is required. The ground rod end is designed for high-impact applications to ensure quality connections.

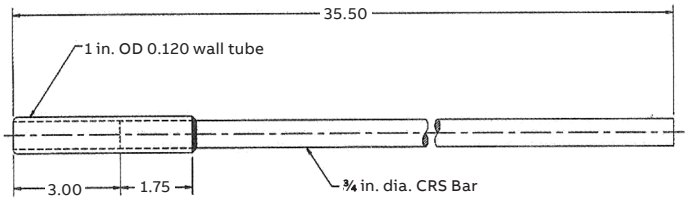
- Unique design allows installation of 10-foot rods from ground level
- Heavy-duty steel construction
- Ergonomic grip provides ease and comfort with increased safety
- Complete with interchangeable parts that are range-taking for different diameter ground rods
- Two interchangeable inserts allow the same tool to be used with all sizes of rods
- Completely self-contained and easy to store

Ground rod drivers

Cat. no.	Description	Weight (lb)	Maximum rod diameter (in.)	Std. pkg.
TBRD58	5 ft. Ground rod driver with ⅝ in. insert	25	0.63	1
TBRD34	5 ft. Ground rod driver with ¾ in. insert		0.75	1
TBS58	Replacement ⅝ in. insert	4	0.63	1
TBS34	Replacement ¾ in. insert		0.75	1

Diagrams





Flexible braids

Flexible braid for grounding, bonding and continuous current applications

- Tin-plated copper braids and ferrules for high conductivity and corrosion resistance
- Flexible copper braids for use in substation and grounding applications
- Flexible braids allow for linear expansion, equipment vibration and offset connections

Cat. no.	Circular mils	Wire Equivalent	Bolt hole (in.)	No. of braids by ferrule	Dimensions (in.) (T) Thickness	(C) Width	(D) Ferrule length	(E) Distance ctr. to ctr.
FBB12-1*	24,000	6 AWG	¼	1	0.140	0.625	0.750	–
FBC12-1*	48,000	3 AWG	⅜	1	0.148	1.000	1.300	–
FBD12-1*	76,800	1 AWG	⅜	1	0.200	1.000	1.300	–
FBD12*	76,800	1 AWG	⅜	1	0.200	1.000	2.500	1.25
FB2D12-1*	153,600	154 kcmil	⅜	2	0.250	1.250	1.500	–
FB2D12*	153,600	154 kcmil	⅜	2	0.250	1.250	2.500	1.25
FB3D12-1*	230,400	231 kcmil	⅜	3	0.350	1.250	1.500	–
FB3D12*	230,400	231 kcmil	⅜	3	0.350	1.250	2.500	1.25
FBXD12-1*	105,600	1/0 AWG	½	1	0.250	1.250	1.500	–
FBXD12*	105,600	1/0 AWG	½	1	0.250	1.250	2.500	1.25
FB2XD12-1*	211,200	4/0 AWG	½	2	0.350	1.250	1.500	–
FB2XD12*	211,200	4/0 AWG	½	2	0.350	1.250	2.500	1.25
FB3XD12-1*	315,800	316 kcmil	½	3	0.400	1.250	1.500	–
FB3XD12*	315,800	316 kcmil	½	3	0.400	1.250	2.500	1.25
FBE12-1*	168,000	3/0 AWG	½	1	0.500	1.250	2.500	–
FBE12**	168,000	3/0 AWG	½	1	0.250	1.250	3.500	1.75
FB2E12-1*	336,000	350 kcmil	½	1	0.500	1.250	2.500	–
FB2E12*	336,000	350 kcmil	½	2	0.500	1.250	3.500	1.75
FB3E12	504,000	500 kcmil	½	3	0.750	1.250	3.500	1.75
FB4E12	672,000	672 kcmil	½	4	1.00	1.25	3.500	1.75
FBF12	230 400	231 kcmil	½	1	0.300	1.500	3.500	1.75
FB2F12	460,800	462 kcmil	½	2	0.450	1.500	3.500	1.75
FB3F12	691,200	696 kcmil	½	3	0.600	1.625	3.500	1.75
FB4F12	921,600	928 kcmil	½	4	0.750	1.625	3.500	1.75
FBG12	307,200	308 kcmil	½	1	0.380	1.500	3.500	1.75
FB2G12	614,400	616 kcmil	½	2	0.630	1.625	3.500	1.75
FB3G12	921,600	928 kcmil	½	3	0.850	1.625	3.500	1.75
FB4G12	1,228,800	1,250 kcmil	½	4	1.000	1.880	3.500	1.75

Diagrams

*UL listed 467/486 and CSA certified C22.2 No. 41 as grounding and bonding equipment.
Standard lengths offered in 6, 12, 18, 24, 30 and 36 inches (end to end). Change the 12 in the above catalogue numbers to the desired length.
(-1) indicates 1 bolt hole per ferrule.
For custom flexible braids, contact your ABB regional sales office.

Flat braided tinned copper cable *

Cat. no.	Circular mils	Thickness (in.)	Width (in.)
FBBRL	24,000	0.140	0.625
FBCRL	48,000	0.418	1.000
FBDRL	76,800	0.200	1.000
FBXDRL	105,600	0.250	1.250

Cable only, sold in roll. Minimum quantities apply to some products; contact your representative for more information.

Minimum size conductors for bonding raceways and equipment

Rating or setting of overcurrent device in circuit ahead of equipment, conduit, etc. Not exceeding — Amperes	Copper wire circular mils
200	26,240
300	41,740
400	52,620
500	66,360
600	83,690
800	105,600
1,000	133,100
1,200	167,800
1,600	211,600
2,000	250,000
2,500	350,000
3,000	400,000
4,000	500,000
5,000	700,000
6,000	800,000

Based on table 16 CEC.

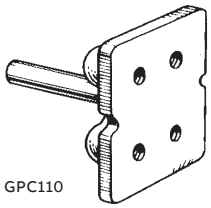
Minimum size of bare copper grounding conductor

Maximum available short circuit current amperes	Maximum fault duration with exothermic weld, compression or bolted joint: 0.5 seconds circular mils	1.0 second circular mils
5,000	26,240	47,740
10,000	52,620	83,690
15,000	83,690	105,600
20,000	105,600	167,800
25,000	133,100	211,600
30,000	167,800	211,600
35,000	211,600	250,000
40,000	211,600	300,000
50,000	250,000	350,000
60,000	300,000	500,000
70,000	350,000	600,000
80,000	400,000	600,000
90,000	500,000	700,000
100,000	500,000	700,000

Based on table 51 CEC. Size calculated in accordance with IEEE No.80.

Exothermic welding system

Earth points

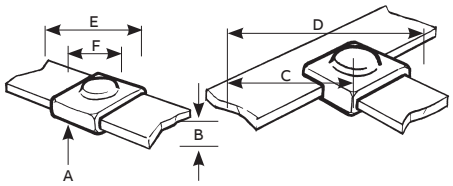


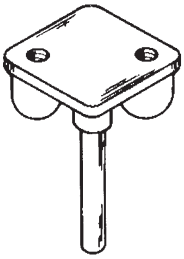
GPC110

Four-hole earth points

Cat. no.	A Hole size (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)
GPC110	4 x 5/16 UNC x 9/16	27/64	2	3	2½	1 13/32
GPC111	As GPC110 with a pre-welded 20 in. long tail of 2/0 AWG PVC-insulated cable					

Diagrams

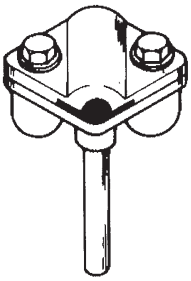




GPC125

Two-hole earth points
Complete with front plate

Cat. no.	Conductor type	B (in. dia.)	C (in.)	D (in.)	E (in.)	F (in.)
GPC115	1 in. x ⅛ in. tape or 2/0 AWG cable	27/64	2	3⅛	2 3/16	1¾
GPC116	As GPC115 with a pre-welded 20 in. long tail of 2/0 AWG PVC-insulated cable					
GPC120	1 in. x ⅛ in. tape or 5/16 in. dia. solid	27/64	2	3⅛	2 3/16	1¾
GPC121	As PC120 with a pre-welded 20 in. long tail of 2/0 AWG PVC-insulated cable					

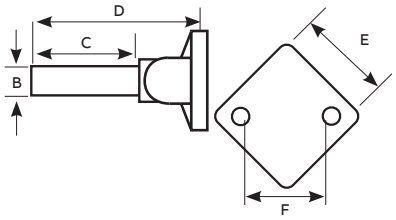


GPC115 – GPC120

Two-hole earth points
Without front plate

Cat. no.	Conductor type	B (in. dia.)	C (in.)	D (in.)	E (in.)	F (in.)
GPC125	2 x 5/16 UNC x ½	27/64	2	3⅛	2 3/16	1¾
GPC126	As PC125 with a pre-welded 20 in. long tail of 2/0 AWG PVC-insulated cable					

Diagrams



GPC116 – GPC121

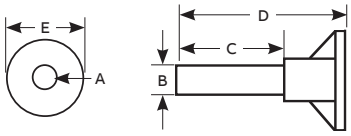
Exothermic welding system

Earth points

One-hole earth points

Cat. no.	A hole size	B (in. dia.)	C (in.)	D (in.)	E (in.)
GPC100	1 x 5/16 UNC x 5/8	27/64	2 3/16	3 1/8	1 3/8
GPC101	1 x 3/8 UNC x 5/8	27/64	2 3/16	3 1/8	1 3/8
GPC105	As PC100 with a pre-welded 20 in. long tail of 2/0 AWG PVC-insulated cable				
GPC106	As PC101 with a pre-welded 20 in. long tail of 2/0 AWG PVC-insulated cable				

Diagrams

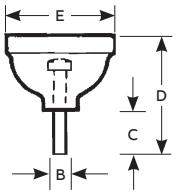


GRX005

Static earth receptacle

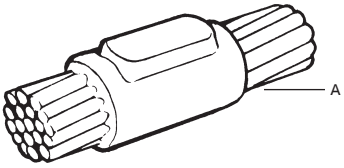
Cat. no.	B (in. dia.)	C (in.)	D (in.)	E (in.)
GRX005	27/64	1 1/2	3 3/8	2 11/16

Diagram



Exothermic welding system

CCI cable to cable



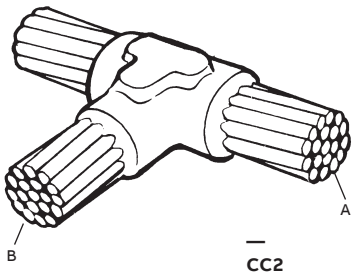
- Stranded conductor
- Solid circular conductor

CCI

Cat. no.	Wire size (A) (AWG or kcmil)	Welding powder size	Handle clamp type	Std. qty.
CC1-3-#3	#3	32BKB	HCPK3	1
CC1-3-#2	#2	32BKB	HCPK3	1
CC1-3-#2S	#2 solid	32BKB	HCPK3	1
CC1-3-#1	#1	32BKB	HCPK3	1
CC1-3-#1S	#1 solid	32BKB	HCPK3	1
CC1-4-1/0	1/0	45BKB	HCPK4	1
CC1-4-1/0S	1/0 solid	45BKB	HCPK4	1
CC1-4-2/0	2/0	65BKB	HCPK4	1
CC1-4-3/0	3/0	90BKB	HCPK4	1
CC1-4-4/0	4/0	90BKB	HCPK4	1
CC1-4-4/0S	4/0 solid	90BKB	HCPK4	1
CC1-4-250K	250	115BKB	HCPK4	1
CC1-4-300K	300	115BKB	HCPK4	1
CC1-4-350K	350	150BKB	HCPK4	1
CC1-4-500K	500	200BKB	HCPK4	1
CC1-5-750K	750	2 X 150BKB	HCPK5	1
CC1-5-1000K	1,000	2 X 200BKB	HCPK5	1

Exothermic welding system

CC2 cable to cable



- Stranded conductor
- Solid circular conductor

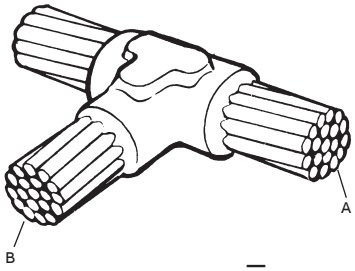
CC2

Cat. no.	Wire size (AWG or kcmil) A	B	Welding powder size	Handle clamp type	Std. qty.
CC2-4-#4#4	4	4	32BKB	HCPK4	1
CC2-4-#2S#2	#2 solid	#2	45BKB	HCPK4	1
CC2-4-#2S#2S	#2 solid	#2 solid	45BKB	HCPK4	1
CC2-4-#2S#4	#2 solid	#4	45BKB	HCPK4	1
CC2-4-#2#2	#2	#2	45BKB	HCPK4	1
CC2-4-#2#2S	#2	#2 solid	45BKB	HCPK4	1
CC2-4-#2#4	#2	#4	45BKB	HCPK4	1
CC2-4-#1#1	#1	#1	45BKB	HCPK4	1
CC2-4-#1#2	#1	#2	45BKB	HCPK4	1
CC2-4-#1#2S	#1	#2 solid	45BKB	HCPK4	1
CC2-4-#1#4	#1	#4	45BKB	HCPK4	1
CC2-4-1/01/0	1/0	1/0	90BKB	HCPK4	1
CC2-4-1/0#1	1/0	#1	45BKB	HCPK4	1
CC2-4-1/0#2	1/0	#2	45BKB	HCPK4	1
CC2-4-1/0#2S	1/0	#2 solid	45BKB	HCPK4	1
CC2-4-1/0#4	1/0	#4	45BKB	HCPK4	1
CC2-4-2/02/0	2/0	2/0	90BKB	HCPK4	1
CC2-4-2/01/0	2/0	1/0	90BKB	HCPK4	1
CC2-4-2/0#1	2/0	#1	45BKB	HCPK4	1
CC2-4-2/0#2	2/0	#2	45BKB	HCPK4	1
CC2-4-2/0#2S	2/0	2 solid	45BKB	HCPK4	1
CC2-4-2/0#4	2/0	#4	45BKB	HCPK4	1
CC2-4-3/03/0	3/0	3/0	115BKB	HCPK4	1
CC2-4-3/02/0	3/0	2/0	90BKB	HCPK4	1
CC2-4-3/01/0	3/0	1/0	90BKB	HCPK4	1
CC2-4-3/0#1	3/0	#1	45BKB	HCPK4	1

Cat. no.	Wire size (AWG or kcmil) A	B	Welding powder size	Handle clamp type	Std. qty.
CC2-4-3/0#2	3/0	#2	45BKB	HCPK4	1
CC2-4-3/0#2S	3/0	#2 solid	45BKB	HCPK4	1
CC2-4-3/0#4	3/0	#4	45BKB	HCPK4	1
CC2-4-4/04/0	4/0	4/0	150BKB	HCPK4	1
CC2-4-4/03/0	4/0	3/0	115BKB	HCPK4	1
CC2-4-4/02/0	4/0	2/0	90BKB	HCPK4	1
CC2-4-4/01/0	4/0	1/0	90BKB	HCPK4	1
CC2-4-4/0#1	4/0	#1	90BKB	HCPK4	1
CC2-4-4/0#2	4/0	#2	90BKB	HCPK4	1
CC2-4-4/0#2S	4/0	#2 solid	90BKB	HCPK4	1
CC2-4-4/0#4	4/0	#4	90BKB	HCPK4	1
CC2-4-250K250K	250	250	150BKB	HCPK4	1
CC2-4-250K4/0	250	4/0	150BKB	HCPK4	1
CC2-4-250K4/0	250	3/0	150BKB	HCPK4	1
CC2-4-250K2/0	250	2/0	90BKB	HCPK4	1
CC2-4-250K1/0	250	1/0	90BKB	HCPK4	1
CC2-4-250K#1	250	#1	90BKB	HCPK4	1
CC2-4-250K#2	250	#2	90BKB	HCPK4	1
CC2-4-250K#2S	250	#2 solid	90BKB	HCPK4	1
CC2-4-250K#4	250	#4	90BKB	HCPK4	1
CC2-4-300K300K	300	300	200BKB	HCPK4	1
CC2-4-300K250K	300	250	150BKB	HCPK4	1
CC2-4-300K4/0	300	4/0	150BKB	HCPK4	1
CC2-4-300K3/0	300	3/0	150BKB	HCPK4	1
CC2-4-300K2/0	300	2/0	90BKB	HCPK4	1
CC2-4-300K1/0	300	1/0	90BKB	HCPK4	1

Exothermic welding system

CC2 cable to cable



- Stranded conductor
- Solid circular conductor

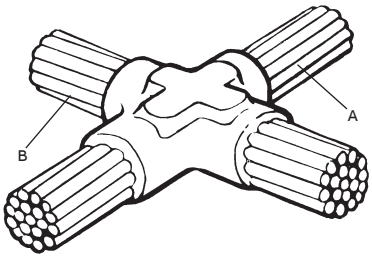
CC2 (cont'd)

Cat. no.	Wire size (AWG or kcmil) A	B	Welding powder size	Handle clamp type	Std. qty.
CC2-4-300K#2	300	#2	90BKB	HCPK4	1
CC2-4-300K#2S	300	#2 solid	90BKB	HCPK4	1
CC2-4-300K#4	300	#4	90BKB	HCPK4	1
CC2-4-350K350K	350	350	200BKB	HCPK4	1
CC2-4-350K300K	350	300	200BKB	HCPK4	1
CC2-4-350K250K	350	250	200BKB	HCPK4	1
CC2-4-350K4/0	350	4/0	150BKB	HCPK4	1
CC2-4-350K3/0	350	3/0	150BKB	HCPK4	1
CC2-4-350K2/0	350	2/0	90BKB	HCPK4	1
CC2-4-350K1/0	350	1/0	90BKB	HCPK4	1
CC2-4-350K#1	350	#1	90BKB	HCPK4	1
CC2-4-350K#2	350	#2	90BKB	HCPK4	1
CC2-4-350K#4	350	#4	90BKB	HCPK4	1
CC2-4-500K500K	500	500	2 X 150BKB	HCPK4	1
CC2-4-500K350K	500	350	200BKB	HCPK4	1
CC2-4-500K300K	500	300	200BKB	HCPK4	1
CC2-4-500K250K	500	250	200BKB	HCPK4	1
CC2-4-500K4/0	500	4/0	150BKB	HCPK4	1
CC2-4-500K2/0	500	2/0	90BKB	HCPK4	1
CC2-4-500K1/0	500	1/0	90BKB	HCPK4	1
CC2-4-500K#1	500	#1	90BKB	HCPK4	1
CC2-4-500K#2	500	#2	90BKB	HCPK4	1
CC2-4-500K#4	500	#4	90BKB	HCPK4	1
CC2-5-750K750K	750	750	2 X 250BKB	HCPK5	1
CC2-5-750K500K	750	500	2 X 250BKB	HCPK5	1
CC2-4-750K350K	750	350	250BKB	HCPK4	1

Cat. no.	Wire size (AWG or kcmil) A	B	Welding powder size	Handle clamp type	Std. qty.
CC2-4-750K300K	750	300	200BKB	HCPK4	1
CC2-4-750K250	750	250	200BKB	HCPK4	1
CC2-4-750K4/0	750	4/0	150BKB	HCPK4	1
CC2-4-750K2/0	750	2/0	150BKB	HCPK4	1
CC2-4-750K1/0	750	1/0	150BKB	HCPK4	1
CC2-5-1000K1000K	1,000	1,000	2 X 250BKB	HCPK5	1
CC2-5-1000K750K	1,000	750	2 X 250BKB	HCPK5	1
CC2-5-1000K500K	1,000	500	2 X 200BKB	HCPK5	1
CC2-4-1000K350K	1,000	350	250BKB	HCPK4	1
CC2-4-1000K300K	1,000	300	200BKB	HCPK4	1
CC2-4-1000K250K	1,000	250	200BKB	HCPK4	1
CC2-4-1000K4/0	1,000	4/0	150BKB	HCPK4	1
CC2-4-1000K2/0	1,000	2/0	150BKB	HCPK4	1
CC2-4-1000K1/0	1,000	1/0	150BKB	HCPK4	1

Exothermic welding system

CC4 cable to cable



- Stranded conductor
- Solid circular conductor

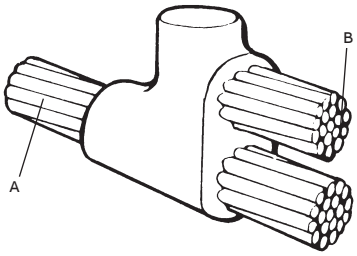
CC4

Cat. no.	Wire size (AWG or kcmil) A	B	Welding powder size	Handle clamp type	Std. qty.
CC4-4-#4#4	#4	#4	45BKB	HCPK4	1
CC4-4-#2#2	#2	#2	65BKB	HCPK4	1
CC4-4-#2#4	#2	#4	65BKB	HCPK4	1
CC4-4-#2S#2S	2 solid	2 solid	2 massif	HCPK4	1
CC4-4-#1#1	#1	#1	65BKB	HCPK4	1
CC4-4-#1#2	#1	#2	65BKB	HCPK4	1
CC4-4-#1#4	#1	#4	65BKB	HCPK4	1
CC4-4-1/01/0	1/0	1/0	90BKB	HCPK4	1
CC4-4-1/0#1	1/0	#1	90BKB	HCPK4	1
CC4-4-1/0#2	1/0	#2	90BKB	HCPK4	1
CC4-4-1/0#4	1/0	#4	90BKB	HCPK4	1
CC4-4-2/02/0	2/0	2/0	115BKB	HCPK4	1
CC4-42/01/0	2/0	1/0	115BKB	HCPK4	1
CC4-4-2/0#1	2/0	#1	115BKB	HCPK4	1
CC4-4-2/0#2	2/0	#2	115BKB	HCPK4	1
CC4-4-3/03/0	3/0	3/0	115BKB	HCPK4	1
CC4-4-3/02/0	3/0	2/0	150BKB	HCPK4	1
CC4-4-3/01/0	3/0	1/0	115BKB	HCPK4	1
CC4-4-3/0#1	3/0	#1	115BKB	HCPK4	1
CC4-4-3/0#2	3/0	#2	115BKB	HCPK4	1
CC4-4-4/04/0	4/0	4/0	200BKB	HCPK4	1
CC4-4-4/03/0	4/0	3/0	200BKB	HCPK4	1
CC4-4-4/02/0	4/0	2/0	150BKB	HCPK4	1
CC4-4-4/01/0	4/0	1/0	150BKB	HCPK4	1
CC4-4-4/0#1	4/0	#1	115BKB	HCPK4	1
CC4-4-4/0#2	4/0	#2	115BKB	HCPK4	1
CC4-4-250K250K	250	250	200BKB	HCPK4	1
CC4-4-250K4/0	250	4/0	200BKB	HCPK4	1
CC4-4-250K3/0	250	3/0	200BKB	HCPK4	1
CC4-4-250K2/0	250	2/0	150BKB	HCPK4	1
CC4-4-250K1/0	250	1/0	150BKB	HCPK4	1
CC4-4-250K#1	250	#1	115BKB	HCPK4	1
CC4-4-250K#2	250	#2	115BKB	HCPK4	1

Cat. no.	Wire size (AWG or kcmil) A	B	Welding powder size	Handle clamp type	Std. qty.
CC4-4-300K300K	300	300	250BKB	HCPK4	1
CC4-4-300K250K	300	250	250BKB	HCPK4	1
CC4-4-300K4/0	300	4/0	200BKB	HCPK4	1
CC4-4-300K3/0	300	3/0	200BKB	HCPK4	1
CC4-4-300K2/0	300	2/0	150BKB	HCPK4	1
CC4-4-300K1/0	300	1/0	150BKB	HCPK4	1
CC4-4300K#1	300	#1	115BKB	HCPK4	1
CC4-4-300K#2	300	#2	115BKB	HCPK4	1
CC4-4-350K350K	350	350	250BKB	HCPK4	1
CC4-4-350K300K	350	300	250BKB	HCPK4	1
CC4-4-4350K250K	350	250	250BKB	HCPK4	1
CC4-4-350K4/0	350	4/0	200BKB	HCPK4	1
CC4-4-350K3/0	350	3/0	200BKB	HCPK4	1
CC4-350K2/0	350	2/0	200BKB	HCPK4	1
CC4-4-350K1/0	350	1/0	200BKB	HCPK4	1
CC4-4-350K#1	350	#1	150BKB	HCPK4	1
CC4-4-350K#2	350	#2	150BKB	HCPK4	1
CC4-5-500K500K	500	500	2 X 250BKB	HCPK5	1
CC4-5-500K350K	500	350	2 X 200BKB	HCPK5	1
CC4-5-500K300K	500	300	2 X 200BKB	HCPK5	1
CC4-5-500K250K	500	250	2 X 150BKB	HCPK5	1
CC4-5-500K4/0	500	4/0	2 X 150BKB	HCPK5	1
CC4-5-500K3/0	500	3/0	2 X 150BKB	HCPK5	1
CC4-4-500K2/0	500	2/0	250BKB	HCPK5	1
CC4-4-500K1/0	500	1/0	250BKB	HCPK5	14

Exothermic welding system

CC6 cable to cable



- Stranded conductor
- Solid circular conductor

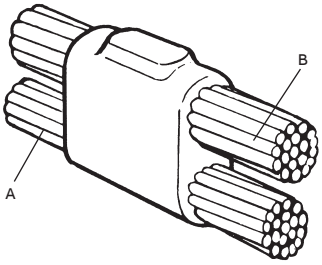
CC6

Cat. no.	Wire size (AWG or kcmil) A	B	Welding powder size	Handle clamp type	Std. qty.
CC6-4-#4#4	#4	#4	45BKB	HCPK4	1
CC6-4-#2#2	#2	#2	65BKB	HCPK4	1
CC6-4-#2#4	#2	#4	65BKB	HCPK4	1
CC6-4-#2S#2S	2 solid	2 solid	65BKB	HCPK4	1
CC6-4-#1#1	#1	#1	65BKB	HCPK4	1
CC6-4-#1#2	#1	#2	65BKB	HCPK4	1
CC6-4-#1#4	#1	#4	65BKB	HCPK4	1
CC6-4-1/01/0	1/0	1/0	90BKB	HCPK4	1
CC6-4-1/0#1	1/0	#1	90BKB	HCPK4	1
CC6-4-1/0#2	1/0	#2	90BKB	HCPK4	1
CC6-4-1/0#4	1/0	#4	90BKB	HCPK4	1
CC6-4-2/02/0	2/0	2/0	115BKB	HCPK4	1
CC6-4-2/01/0	2/0	1/0	115BKB	HCPK4	1
CC6-4-2/0#1	2/0	#1	115BKB	HCPK4	1
CC6-4-2/0#2	2/0	#2	115BKB	HCPK4	1
CC6-4-3/03/0	3/0	3/0	115BKB	HCPK4	1
CC6-4-3/02/0	3/0	2/0	150BKB	HCPK4	1
CC6-4-3/01/0	3/0	1/0	115BKB	HCPK4	1
CC6-4-3/0#1	3/0	#1	115BKB	HCPK4	1
CC6-4-3/0#2	3/0	#2	115BKB	HCPK4	1
CC6-4-4/04/0	4/0	4/0	200BKB	HCPK4	1
CC6-4-4/03/0	4/0	3/0	200BKB	HCPK4	1
CC6-4-4/02/0	4/0	2/0	150BKB	HCPK4	1
CC6-4-4/01/0	4/0	1/0	150BKB	HCPK4	1
CC6-4-4/0#1	4/0	#1	115BKB	HCPK4	1
CC6-4-4/0#2	4/0	#2	115BKB	HCPK4	1

Cat. no.	Wire size (AWG or kcmil) A	B	Welding powder size	Handle clamp type	Std. qty.
CC6-4-250K250K	250	250	200BKB	HCPK4	1
CC6-4-250K4/0	250	4/0	200BKB	HCPK4	1
CC6-4-250K3/0	250	3/0	200BKB	HCPK4	1
CC6-4-250K2/0	250	2/0	150BKB	HCPK4	1
CC6-4-250K1/0	250	1/0	150BKB	HCPK4	1
CC6-4-250K#1	250	#1	115BKB	HCPK4	1
CC6-4-250K#2	250	#2	115BKB	HCPK4	1
CC6-4-300K300K	300	300	250BKB	HCPK4	1
CC6-4-300K250K	300	250	250BKB	HCPK4	1
CC6-4-300K4/0	300	4/0	200BKB	HCPK4	1
CC6-4-300K3/0	300	3/0	200BKB	HCPK4	1
CC6-4-300K2/0	300	2/0	150BKB	HCPK4	1
CC6-4-300K1/0	300	1/0	150BKB	HCPK4	1
CC6-4-300K#1	300	#1	115BKB	HCPK4	1
CC6-4-300K#2	300	#2	115BKB	HCPK4	1
CC6-4-350K350K	350	350	250BKB	HCPK4	1
CC6-4-350K300K	350	300	250BKB	HCPK4	1
CC6-4-4350K250K	350	250	250BKB	HCPK4	1
CC6-4-350K4/0	350	4/0	200BKB	HCPK4	1
CC6-4-350K3/0	350	3/0	200BKB	HCPK4	1
CC6-4-350K2/0	350	2/0	200BKB	HCPK4	1

Exothermic welding system

CC7 cable to cable



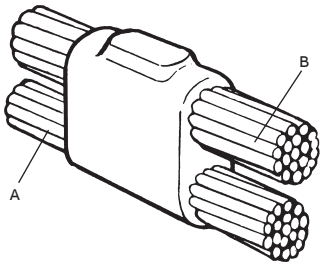
- Stranded conductor
- Solid circular conductor

CC7

Cat. no.	Wire size (AWG or kcmil) A	Wire size (AWG or kcmil) B	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CC7-4-#4#4	#4	#4	32BKB	HCPK4	–	1
CC7-4-#4#6	#4	#6	32BKB	HCPK4	2 X Sleeve#6	1
CC7-4-#4#6S	#4	#6 solid	32BKB	HCPK4	2 X Sleeve#6S	1
CC7-4-#4#8	#4	#8	32BKB	HCPK4	2 X Sleeve#8	1
CC7-4-#2S#2	#2 solid	#2	65BKB	HCPK4	–	1
CC7-4-#2S#2S	#2 solid	#2 solid	65BKB	HCPK4	–	1
CC7-4-#2S#4	#2 solid	#4	65BKB	HCPK4	–	1
CC7-4-#2S#6	#2 solid	#6	45BKB	HCPK4	2 X Sleeve#6	1
CC7-4-#2S#6S	#2 solid	#6 solid	45BKB	HCPK4	2 X Sleeve#6S	1
CC7-4-#2S#8	#2 solid	#8	45BKB	HCPK4	2 X Sleeve#8	1
CC7-4-#2S#8S	#2 solid	#8 solid	8 solid	HCPK4	2 X Sleeve#8S	1
CC7-4-#2#2	#2	#2	65BKB	HCPK4	–	1
CC7-4-#2#4	#2	#4	65BKB	HCPK4	–	1
CC7-4-#2#6	#2	#6	45BKB	HCPK4	2 X Sleeve#6	1
CC7-4-#2#6S	#2	#6 solid	45BKB	HCPK4	2 X Sleeve#6S	1
CC7-4-#2#8	#2	#8	45BKB	HCPK4	2 X Sleeve#8	1
CC7-4-#2#8S	#2	#8 solid	45BKB	HCPK4	2 X Sleeve#8S	1
CC7-4-#1S#1	#1 solid	#1	65BKB	HCPK4	–	1
CC7-4-#1S#2	#1 solid	#2	65BKB	HCPK4	–	1
CC7-4-#1S#2S	#1 solid	#2 solid	65BKB	HCPK4	–	1
CC7-4-#1S#4	#1 solid	#4	65BKB	HCPK4	–	1
CC7-4-#1S#6	#1 solid	#6	65BKB	HCPK4	2 X Sleeve#6	1
CC7-4-#1S#6S	#1 solid	#6 solid	65BKB	HCPK4	2 X Sleeve#6S	1
CC7-4-#1S#8	#1 solid	#8	45BKB	HCPK4	2 X Sleeve#8	1
CC7-4-#1S#8S	#1 solid	#8 solid	45BKB	HCPK4	2 X Sleeve#8S	1
CC7-4-#1#1	#1	#1	65BKB	HCPK4	–	1
CC7-4-#1#1S	#1	#1 solid	65BKB	HCPK4	–	1
CC7-4-#1#2	#1	#2	65BKB	HCPK4	–	1
CC7-4-#1#2S	#1	#2 solid	65BKB	HCPK4	–	1
CC7-4-#1#4	#1	#4	65BKB	HCPK4	–	1
CC7-4-#1#6	#1	#6	65BKB	HCPK4	2 X Sleeve#6	1
CC7-4-#1#6S	#1	#6 solid	65BKB	HCPK4	2 X Sleeve#6S	1
CC7-4-#1#8	#1	#8	45BKB	HCPK4	2 X Sleeve#8	1
CC7-4-#1#8S	#1	#8 solid	45BKB	HCPK4	2 X Sleeve#8S	1
CC7-4-1/0S1/0	1/0 solid	1/0	90BKB	HCPK4	–	1
CC7-4-1/0S1/0S	1/0 solid	1/0 solid	90BKB	HCPK4	–	1
CC7-4-1/0S#1	1/0 solid	#1	65BKB	HCPK4	–	1
CC7-4-1/0S#1S	1/0 solid	#1 solid	65BKB	HCPK4	–	1
CC7-4-1/0S#2	1/0 solid	#2	65BKB	HCPK4	–	1
CC7-4-1/0S#2S	1/0 solid	#2 solid	65BKB	HCPK4	–	1
CC7-4-1/0S#4	1/0 solid	#4	65BKB	HCPK4	–	1
CC7-4-1/0S#6	1/0 solid	#6	65BKB	HCPK4	2 X Sleeve#6	1
CC7-4-1/0S#6S	1/0 solid	#6 solid	65BKB	HCPK4	2 X Sleeve#6S	1
CC7-4-1/0S#8	1/0 solid	#8	65BKB	HCPK4	2 X Sleeve#8	1
CC7-4-1/0S#8S	1/0 solid	#8 solid	65BKB	HCPK4	2 X Sleeve#8S	1
CC7-4-1/01/0	1/0	1/0	90BKB	HCPK4	–	1
CC7-4-1/01/0S	1/0	1/0 solid	90BKB	HCPK4	–	1

Exothermic welding system

CC7 cable to cable



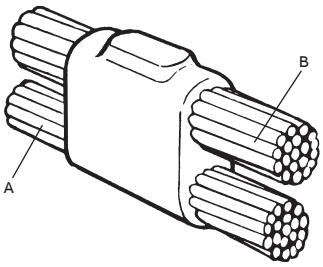
- Stranded conductor
- Solid circular conductor

CC7 (cont'd)

Cat. no.	Wire size (AWG or kcmil) A	B	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CC7-4-1/0#1	1/0	#1	65BKB	HCPK4	–	1
CC7-4-1/0#1S	1/0	#1 solid	65BKB	HCPK4	–	1
CC7-4-1/0#2	1/0	#2	65BKB	HCPK4	–	1
CC7-4-1/0#2S	1/0	#2 solid	65BKB	HCPK4	–	1
CC7-4-1/0#4	1/0	#4	65BKB	HCPK4	–	1
CC7-4-1/0#6	1/0	#6	65BKB	HCPK4	2 X Sleeve#6	1
CC7-4-1/0#6S	1/0	#6 solid	65BKB	HCPK4	2 X Sleeve#6S	1
CC7-4-1/0#8	1/0	#8	65BKB	HCPK4	2 X Sleeve#8	1
CC7-4-1/0#8S	1/0	#8 solid	65BKB	HCPK4	2 X Sleeve#8S	1
CC7-4-2/02/0	2/0	2/0	115BKB	HCPK4	–	1
CC7-4-2/01/0	2/0	1/0	115BKB	HCPK4	–	1
CC7-4-2/01/0S	2/0	1/0 solid	115BKB	HCPK4	–	1
CC7-4-2/0#1	2/0	#1	90BKB	HCPK4	–	1
CC7-4-2/0#1S	2/0	#1 solid	90BKB	HCPK4	–	1
CC7-4-2/0#2	2/0	#2	90BKB	HCPK4	–	1
CC7-4-2/0#4	2/0	#4	90BKB	HCPK4	–	1
CC7-4-2/0#6	2/0	#6	90BKB	HCPK4	2 X Sleeve#6	1
CC7-4-2/0#6S	2/0	#6 solid	90BKB	HCPK4	2 X Sleeve#6S	1
CC7-4-2/0#8	2/0	#8	65BKB	HCPK4	2 X Sleeve#8	1
CC7-4-2/0#8S	2/0	#8 solid	65BKB	HCPK4	2 X Sleeve#8S	1
CC7-4-3/03/0	3/0	3/0	150BKB	HCPK4	–	1
CC7-4-3/02/0	3/0	2/0	150BKB	HCPK4	–	1
CC7-4-3/01/0	3/0	1/0	115BKB	HCPK4	–	1
CC7-4-3/01/0S	3/0	1/0 solid	115BKB	HCPK4	–	1
CC7-4-3/0#1	3/0	#1	115BKB	HCPK4	–	1
CC7-4-3/0#1S	3/0	#1 solid	115BKB	HCPK4	–	1
CC7-4-3/0#2	3/0	#2	115BKB	HCPK4	–	1
CC7-4-3/0#2S	3/0	#2 solid	115BKB	HCPK4	–	1
CC7-4-3/0#4	3/0	#4	115BKB	HCPK4	–	1
CC7-4-3/0#6	3/0	#6	90BKB	HCPK4	2 X Sleeve#6	1
CC7-4-3/0#6S	3/0	#6 solid	90BKB	HCPK4	2 X Sleeve#6S	1
CC7-4-3/0#8	3/0	#8	90BKB	HCPK4	2 X Sleeve#8	1
CC7-4-3/0#8S	3/0	#8 solid	90BKB	HCPK4	2 X Sleeve#8S	1

Exothermic welding system

CC7 cable to cable



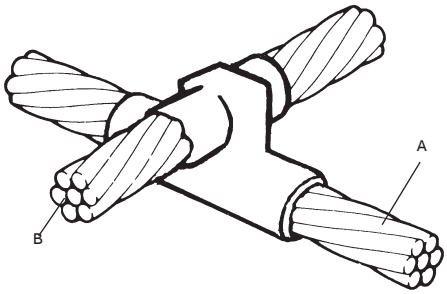
- Stranded conductor
- Solid circular conductor

CC7 (cont'd)

Cat. no.	Wire size (AWG or kcmil) A	B	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CC7-4-4/0S4/0	4/0 solid	4/0	200BKB	HCPK4	–	1
CC7-4-4/0S4/0S	4/0 solid	4/0 solid	200BKB	HCPK4	–	1
CC7-4-4/0S3/0	4/0 solid	3/0	200BKB	HCPK4	–	1
CC7-4-4/0S2/0	4/0 solid	2/0	150BKB	HCPK4	–	1
CC7-4-4/0S1/0	4/0 solid	1/0	150BKB	HCPK4	–	1
CC7-4-4/0S1/0S	4/0 solid	1/0 solid	150BKB	HCPK4	–	1
CC7-4-4/0S#1	4/0 solid	#1	150BKB	HCPK4	–	1
CC7-4-4/0S#1S	4/0 solid	#1 solid	150BKB	HCPK4	–	1
CC7-4-4/0S#2	4/0 solid	#2	150BKB	HCPK4	–	1
CC7-4-4/0S#2S	4/0 solid	#2 solid	150BKB	HCPK4	–	1
CC7-4-4/0S#4	4/0 solid	#4	150BKB	HCPK4	–	1
CC7-4-4/0S#6	4/0 solid	#6	90BKB	HCPK4	2 X Sleeve#6	1
CC7-4-4/0S#6S	4/0 solid	#6 solid	90BKB	HCPK4	2 X Sleeve#6S	1
CC7-4-4/0S#8	4/0 solid	#8	90BKB	HCPK4	2 X Sleeve#8	1
CC7-4-4/0S#8S	4/0 solid	#8 solid	90BKB	HCPK4	2 X Sleeve#8S	1
CC7-4-4/04/0	4/0	4/0	200BKB	HCPK4	–	1
CC7-4-4/04/0S	4/0	4/0 solid	200BKB	HCPK4	–	1
CC7-4-4/03/0	4/0	3/0	200BKB	HCPK4	–	1
CC7-4-4/02/0	4/0	2/0	150BKB	HCPK4	–	1
CC7-4-4/01/0	4/0	1/0	150BKB	HCPK4	–	1
CC7-4-4/01/0S	4/0	1/0 solid	150BKB	HCPK4	–	1
CC7-4-4/0#1	4/0	#1	150BKB	HCPK4	–	1
CC7-4-4/0#1S	4/0	#1 solid	150BKB	HCPK4	–	1
CC7-4-4/0#2	4/0	#2	150BKB	HCPK4	–	1
CC7-4-4/0#2S	4/0	#2 solid	150BKB	HCPK4	–	1
CC7-4-4/0#4	4/0	#4	150BKB	HCPK4	–	1
CC7-4-4/0#6	4/0	#6	90BKB	HCPK4	2 X Sleeve#6	1
CC7-4-4/0#6S	4/0	#6 solid	90BKB	HCPK4	2 X Sleeve#6S	1
CC7-4-4/0#8	4/0	#8	90BKB	HCPK4	2 X Sleeve#8	1
CC7-4-4/0#8S	4/0	#8 solid	90BKB	HCPK4	2 X Sleeve#8S	1

Exothermic welding system

CC11 cable to cable



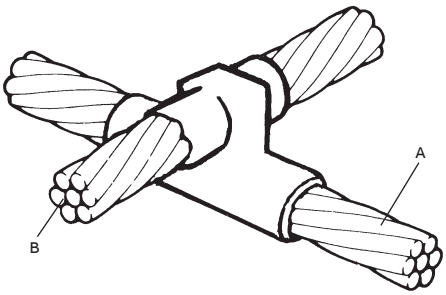
- Stranded conductor
- Solid circular conductor

CC11

Cat. no.	Wire size (AWG or kcmil) A	B	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CC11-7-#6S#6S	#6 solid	#6 solid	32BKB	HCPK7	4 X Sleeve#6S	1
CC11-7-#6#6	#6	#6	45BKB	HCPK7	4 X Sleeve#6	1
CC11-7-#4#4	#4	#4	65BKB	HCPK7	–	1
CC11-7-#2#2	#2	#2	90BKB	HCPK7	–	1
CC11-7-#2#4	#2	#4	65BKB	HCPK7	–	1
CC11-7-#2S#2S	#2 solid	#2 solid	90BKB	HCPK7	–	1
CC11-7-#1#1	#1	#1	115BKB	HCPK7	–	1
CC11-7-#1#2	#1	#2	90BKB	HCPK7	–	1
CC11-7-#1#4	#1	#4	90BKB	HCPK7	–	1
CC11-7-1/01/0	1/0	1/0	150BKB	HCPK7	–	1
CC11-7-1/0#1	1/0	#1	150BKB	HCPK7	–	1
CC11-7-1/0#2	1/0	#2	115BKB	HCPK7	–	1
CC11-7-1/0#4	1/0	#4	115BKB	HCPK7	–	1
CC11-7-2/02/0	2/0	2/0	200BKB	HCPK7	–	1
CC11-7-2/01/0	2/0	1/0	200BKB	HCPK7	–	1
CC11-7-2/0#1	2/0	#1	150BKB	HCPK7	–	1
CC11-7-2/0#2	2/0	#2	150BKB	HCPK7	–	1
CC11-7-3/03/0	3/0	3/0	250BKB	HCPK7	–	1
CC11-7-3/02/0	3/0	2/0	200BKB	HCPK7	–	1
CC11-7-3/01/0	3/0	1/0	200BKB	HCPK7	–	1
CC11-7-3/0#1	3/0	#1	150BKB	HCPK7	–	1
CC11-7-3/0#2	3/0	#2	150BKB	HCPK7	–	1
CC11-7-4/04/0	4/0	4/0	250BKB	HCPK7	–	1
CC11-7-4/03/0	4/0	3/0	250BKB	HCPK7	–	1
CC11-7-4/02/0	4/0	2/0	200BKB	HCPK7	–	1
CC11-7-4/01/0	4/0	1/0	200BKB	HCPK7	–	1
CC11-7-4/0#1	4/0	#1	150BKB	HCPK7	–	1
CC11-7-4/0#2	4/0	#2	150BKB	HCPK7	–	1
CC11-7-250K250K	250	250	2 X 150BKB	HCPK7	–	1
CC11-7-250K4/0	250	4/0	2 X 150BKB	HCPK7	–	1
CC11-7-250K3/0	250	3/0	2 X 150BKB	HCPK7	–	1
CC11-7-250K2/0	250	2/0	250BKB	HCPK7	–	1
CC11-7-250K1/0	250	1/0	250BKB	HCPK7	–	1
CC11-7-250K#1	250	#1	200BKB	HCPK7	–	1
CC11-7-250K#2	250	#2	150BKB	HCPK7	–	1

Exothermic welding system

CC11 cable to cable



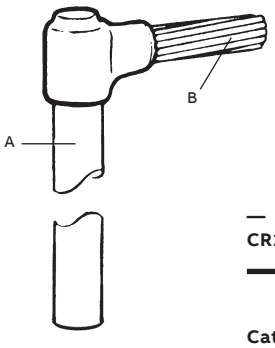
- Stranded conductor
- Solid circular conductor

CC11 (cont'd)

Cat. no.	Wire size (AWG or kcmil) A	B	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CC11-8-300K300K	300	300	2 X 200BKB	HCPK8	–	1
CC11-8-300K250K	300	250	2 X 200BKB	HCPK8	–	1
CC11-7-300K4/0	300	4/0	2 X 150BKB	HCPK7	–	1
CC11-7-300K3/0	300	3/0	2 X 150BKB	HCPK7	–	1
CC11-7-300K2/0	300	2/0	250BKB	HCPK7	–	1
CC11-7-300K1/0	300	1/0	250BKB	HCPK7	–	1
CC11-7-300K#1	300	#1	200BKB	HCPK7	–	1
CC11-7-300K#2	300	#2	150BKB	HCPK7	–	1
CC11-8-350K350K	350	350	2 X 250BKB	HCPK8	–	1
CC11-8-350K300K	350	300	2 X 250BKB	HCPK8	–	1
CC11-8-350K250K	350	250	2 X 250BKB	HCPK8	–	1
CC11-8-350K4/0	350	4/0	2 X 200BKB	HCPK8	–	1
CC11-8-350K3/0	350	3/0	2 X 200BKB	HCPK8	–	1
CC11-7-350K2/0	350	2/0	2 X 150BKB	HCPK7	–	1
CC11-7-350K1/0	350	1/0	250BKB	HCPK7	–	1
CC11-7-350K#1	350	#1	200BKB	HCPK7	–	1
CC11-7-350K#2	350	#2	200BKB	HCPK7	–	1
CC11-8-500K500K	500	500	3 X 250BKB	HCPK8	–	1
CC11-8-500K350K	500	350	3 X 200BKB	HCPK8	–	1
CC11-8-500K300K	500	300	3 X 200BKB	HCPK8	–	1
CC11-8-500K250K	500	250	2 X 250BKB	HCPK8	–	1
CC11-8-500K4/0	500	4/0	2 X 250BKB	HCPK8	–	1
CC11-8-500K3/0	500	3/0	2 X 250BKB	HCPK8	–	1
CC11-8-500K2/0	500	2/0	2 X 200BKB	HCPK8	–	1
CC11-8-500K1/0	500	1/0	2 X 150BKB	HCPK8	–	1

Exothermic welding system

CR1 cable to ground rod



- Stranded conductor
- Solid circular conductor

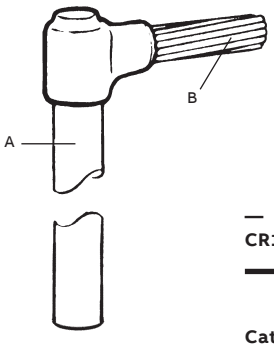
CR1

Cat. no.	Rod size A	Wire size (AWG or kcmil) B	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CR1-3-500#6	½ in. Nominal diameter actual shank dia. 0.476 in. (non UL rod)	#6	65BKB	HCPK3	1 X Sleeve#6	1
CR1-3-500#6S		#6 solid	65BKB	HCPK3	1 X Sleeve#6S	1
CR1-3-500#4		#4	65BKB	HCPK3	–	1
CR1-3-500#4S		#4 solid	45BKB	HCPK3	–	1
CR1-3-500#2		#2	65BKB	HCPK3	–	1
CR1-3-500#2S		#2 solid	65BKB	HCPK3	–	1
CR1-4-500#1		#1	65BKB	HCPK4	–	1
CR1-4-5001/0		1/0	90BKB	HCPK4	–	1
CR1-4-5001/0S		1/0 solid	90BKB	HCPK4	–	1
CR1-4-5002/0		2/0	90BKB	HCPK4	–	1
CR1-4-5003/0		3/0	90BKB	HCPK4	–	1
CR1-4-5004/0		4/0	90BKB	HCPK4	–	1
CR1-4-500250K		250	90BKB	HCPK4	–	1
CR1-4-500300K		300	90BKB	HCPK4	–	1
CR1-3-500L#6	½ in. True diameter actual shank dia. 0.502 in. (UL rod)	#6	45BKB	HCPK3	1 X Sleeve#6	1
CR1-3-500L#6S		#6 solid	45BKB	HCPK3	1 X Sleeve#6S	1
CR1-3-500L#4		#4	45BKB	HCPK3	–	1
CR1-3-500L#4S		#4 solid	45BKB	HCPK3	–	1
CR1-3-500L#2		#2	65BKB	HCPK3	–	1
CR1-3-500L#2S		#2 solid	65BKB	HCPK3	–	1
CR1-4-500L#1		#1	65BKB	HCPK4	–	1
CR1-4-500L1/0		1/0	90BKB	HCPK4	–	1
CR1-4-500L1/0S		1/0 solid	90BKB	HCPK4	–	1
CR1-4-500L2/0		2/0	90BKB	HCPK4	–	1
CR1-4-500L3/0		3/0	90BKB	HCPK4	–	1
CR1-4-500L4/0		4/0	90BKB	HCPK4	–	1
CR1-4-500L250K		250	90BKB	HCPK4	–	1
CR1-4-500L300K		300	90BKB	HCPK4	–	1

For connections to extensible (threaded) rods – remove top threaded section.

Exothermic welding system

CR1 cable to ground rod



- Stranded conductor
- Solid circular conductor

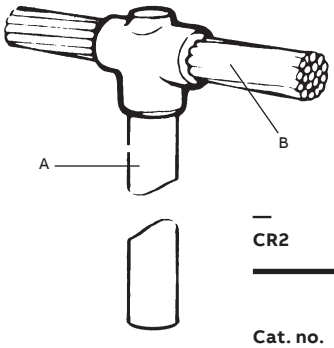
CR1 (cont'd)

Cat. no.	Rod size A	Wire size (AWG or kcmil) B	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CR1-3-625#6	⅝ in. Nominal diameter actual shank dia. 0.560 in.	#6	65BKB	HCPK4	1 X Sleeve#6	1
CR1-3-625#6S		#6 solid	65BKB	HCPK4	1 X Sleeve#6S	1
CR1-3-625#4		#4	65BKB	HCPK4	-	1
CR1-3-625#4S		#4 solid	65BKB	HCPK4	-	1
CR1-4-625#2		#2	65BKB	HCPK4	-	1
CR1-4-625#2S		#2 solid	65BKB	HCPK4	-	1
CR1-4-625#1		#1	65BKB	HCPK4	-	1
CR1-4-6251/0		1/0	90BKB	HCPK4	-	1
CR1-4-6251/0S		1/0 solid	90BKB	HCPK4	-	1
CR1-4-6252/0		2/0	90BKB	HCPK4	-	1
CR1-4-6253/0		3/0	90BKB	HCPK4	-	1
CR1-4-6254/0		4/0	90BKB	HCPK4	-	1
CR1-4-625250K		250	90BKB	HCPK4	-	1
CR1-4-625300K		300	115BKB	HCPK4	-	1
CR1-4-625350K		350	115BKB	HCPK4	-	1
CR1-4-625500K		500	150BKB	HCPK4	-	1
CR1-3-750#6	¾ in. Nominal diameter actual shank dia. 0.678 in.	#6	32BKB	HCPK3	1 X Sleeve#6	1
CR1-3-750#6S		#6 solid	32BKB	HCPK3	1 X Sleeve#6S	1
CR1-3-750#4		#4	45BKB	HCPK3	-	1
CR1-3-750#4S		#4 solid	45BKB	HCPK3	-	1
CR1-4-750#2		#2	90BKB	HCPK4	-	1
CR1-4-750#2S		#2 solid	90BKB	HCPK4	-	1
CR1-4-750#1		#1	90BKB	HCPK4	-	1
CR1-4-7501/0		1/0	90BKB	HCPK4	-	1
CR1-4-7501/0S		1/0 solid	90BKB	HCPK4	-	1
CR1-4-7502/0		2/0	90BKB	HCPK4	-	1
CR1-4-7503/0		3/0	90BKB	HCPK4	-	1
CR1-4-7504/0		4/0	90BKB	HCPK4	-	1
CR1-4-750250K		250	90BKB	HCPK4	-	1
CR1-4-750300K		300	115BKB	HCPK4	-	1
CR1-4-750350K		350	115BKB	HCPK4	-	1
CR1-4-750500K		500	150BKB	HCPK4	-	1

For connections to extensible (threaded) rods – remove top threaded section.

Exothermic welding system

CR2 cable to ground rod



- Stranded conductor
- Solid circular conductor

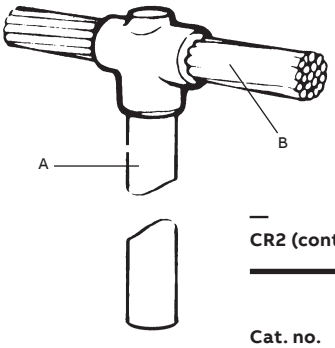
CR2

Cat. no.	Rod size A	Wire size (AWG or kcmil) B	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CR2-3-500#6	½ in. Nominal diameter actual shank dia. 0.476 in. (non UL rod)	#6	65BKB	HCPK3	Sleeve#6	–
CR2-3-500#6S		#6 solid	65BKB	HCPK3	Sleeve#6S	–
CR2-3-500#4		#4	65BKB	HCPK3	–	–
CR2-3-500#4S		#4 solid	65BKB	HCPK3	–	–
CR2-4-500#2		#2	90BKB	HCPK3	–	–
CR2-4-500#2S		#2 solid	90BKB	HCPK3	–	–
CR2-4-500#1		#1	90BKB	HCPK4	–	–
CR2-4-5001/0		1/0	90BKB	HCPK4	–	–
CR2-4-5001/0S		1/0 solid	90BKB	HCPK4	–	–
CR2-4-5002/0		2/0	90BKB	HCPK4	–	–
CR2-4-5003/0		3/0	115BKB	HCPK4	–	–
CR2-4-5004/0		4/0	115BKB	HCPK4	–	–
CR2-4-500250K		250	150BKB	HCPK4	–	–
CR2-4-500300K		300	200BKB	HCPK4	–	
CR2-3-500L#6	½ in. True diameter actual shank dia. 0.502 in. (UL rod)	#6	65BKB	HCPK3	Sleeve#6	
CR2-3-500L#6S		#6 solid	65BKB	HCPK3	Sleeve#6S	–
CR2-3-500L#4		#4	65BKB	HCPK3	–	–
CR2-3-500L#4S		#4 solid	65BKB	HCPK3	–	–
CR2-4-500L#2		#2	90BKB	HCPK3	–	–
CR2-4-500L#2S		#2 solid	90BKB	HCPK3	–	–
CR2-4-500L#1		#1	90BKB	HCPK4	–	–
CR2-4-500L1/0		1/0	90BKB	HCPK4	–	–
CR2-4-500L1/0S		1/0 solid	90BKB	HCPK4	–	–
CR2-4-500L2/0		2/0	90BKB	HCPK4	–	–
CR2-4-500L3/0		3/0	115BKB	HCPK4	–	–
CR2-4-500L4/0		4/0	115BKB	HCPK4	–	–
CR2-4-500L250K		250	150BKB	HCPK4	–	–
CR2-4-500L300K		300	200BKB	HCPK4	–	–

For connections to extensible (threaded) rods – remove top threaded section.

Exothermic welding system

CR2 cable to ground rod



- Stranded conductor
- Solid circular conductor

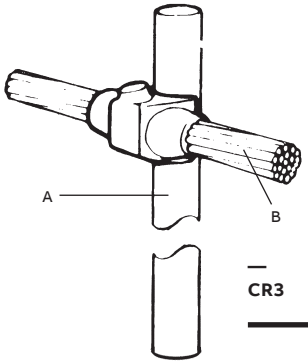
CR2 (cont'd)

Cat. no.	Rod size A	Wire size (AWG or kcmil) B	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CR2-3-625#6	⅝ in. Nominal diameter actual shank dia. 0.560 in.	#6	32BKB	HCPK3	Sleeve#6	–
CR2-3-625#6S		#6 solid	32BKB	HCPK3	Sleeve#6S	–
CR2-3-625#4		#4	32BKB	HCPK3	–	–
CR2-3-625#4S		#4 solid	32BKB	HCPK3	–	–
CR2-4-625#2		#2	90BKB	HCPK4	–	–
CR2-4-625#2S		#2 solid	90BKB	HCPK4	–	–
CR2-4-625#1		#1	90BKB	HCPK4	–	–
CR2-4-6251/0		1/0	90BKB	HCPK4	–	–
CR2-4-6251/0S		1/0 solid	115BKB	HCPK4	–	–
CR2-4-6252/0		2/0	115BKB	HCPK4	–	–
CR2-4-6253/0		3/0	115BKB	HCPK4	–	–
CR2-4-6254/0		4/0	115BKB	HCPK4	–	–
CR2-4-625250K		250	150BKB	HCPK4	–	–
CR2-4-625300K		300	200BKB	HCPK4	–	–
CR2-4-625350K		350	200BKB	HCPK4	–	–
CR2-4-625500K		500	200BKB	HCPK4	–	–
CR2-3-750#6	¾ in. Nominal diameter actual shank dia. 0.678 in.	#6	65BKB	HCPK3	Sleeve#6	1
CR2-3-750#6S		#6 solid	65BKB	HCPK3	Sleeve#6S	1
CR2-3-750#4		#4	65BKB	HCPK3	–	1
CR2-3-750#4S		#4 solid	65BKB	HCPK3	–	1
CR2-4-750#2		#2	90BKB	HCPK4	–	1
CR2-4-750#2S		#2 solid	90BKB	HCPK4	–	1
CR2-4-750#1		#1	90BKB	HCPK4	–	1
CR2-4-7501/0		1/0	115BKB	HCPK4	–	1
CR2-4-7501/0S		1/0 solid	115BKB	HCPK4	–	1
CR2-4-7502/0		2/0	115BKB	HCPK4	–	1
CR2-4-7503/0		3/0	115BKB	HCPK4	–	1
CR2-4-7504/0		4/0	115BKB	HCPK4	–	1
CR2-4-750250K		250	150BKB	HCPK4	–	1
CR2-4-750300K		300	200BKB	HCPK4	–	1
CR2-4-750350K		350	200BKB	HCPK4	–	1
CR2-4-750500K		500	200BKB	HCPK4	–	1

For connections to extensible (threaded) rods – remove top threaded section.

Exothermic welding system

CR3 cable to ground rod



- Stranded conductor
- Solid circular conductor

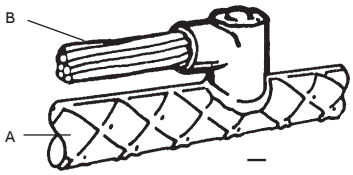
CR3

Cat. no.	Rod size A	Wire size (AWG or kcmil) B	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CR3-9-5001/0	½ in. Nominal diameter actual shank dia. 0.476 in. (non UL rod)	1/0	115BKB	HCPK4 and FRAME1	–	1
CR3-9-5001/0S		1/0 solid	115BKB	HCPK4 and FRAME1	–	1
CR3-9-5002/0		2/0	115BKB	HCPK4 and FRAME1	–	1
CR3-9-5003/0		3/0	150BKB	HCPK4 and FRAME1	–	1
CR3-9-5004/0		4/0	150BKB	HCPK4 and FRAME1	–	1
CR3-9-500250K		250	150BKB	HCPK4 and FRAME1	–	1
CR3-9-500300K		300	200BKB	HCPK4 and FRAME1	–	1
CR3-9-500L1/0	½ in. Nominal diameter actual shank dia. 0.502 in. (UL rod)	1/0	115BKB	HCPK4 and FRAME1	–	1
CR3-9-500L1/0S		1/0 solid	115BKB	HCPK4 and FRAME1	–	1
CR3-9-500L2/0		2/0	115BKB	HCPK4 and FRAME1	–	1
CR3-9-500L3/0		3/0	150BKB	HCPK4 and FRAME1	–	1
CR3-9-500L4/0		4/0	150BKB	HCPK4 and FRAME1	–	1
CR3-9-500L250K		250	150BKB	HCPK4 and FRAME1	–	1
CR3-9-500300K		300	200BKB	HCPK4 and FRAME1	–	1
CR3-9-6251/0	⅝ in. Nominal diameter actual shank dia. 0.560 in.	1/0	115BKB	HCPK4 and FRAME1	–	1
CR3-9-6251/0S		1/0 solid	115BKB	HCPK4 and FRAME1	–	1
CR3-9-6252/0		2/0	115BKB	HCPK4 and FRAME1	–	1
CR3-9-6253/0		3/0	150BKB	HCPK4 and FRAME1	–	1
CR3-9-6254/0		4/0	150BKB	HCPK4 and FRAME1	–	1
CR3-9-625250K		250	150BKB	HCPK4 and FRAME1	–	1
CR3-9-625300K		300	200BKB	HCPK4 and FRAME1	–	1
CR3-9-625350K		350	250BKB	HCPK4 and FRAME1	–	1
CR3-10-625500K		500	2 X 200BKB	HCPK5 and FRAME2	–	1
CR3-9-7501/0	¾ in. Nominal diameter actual shank dia. 0.678 in.	1/0	115BKB	HCPK5 and FRAME2	–	1
CR3-9-7501/0S		1/0 solid	115BKB	HCPK4 and FRAME1	–	1
CR3-9-7502/0		2/0	115BKB	HCPK4 and FRAME1	–	1
CR3-9-7503/0		3/0	115BKB	HCPK4 and FRAME1	–	1
CR3-9-7504/0		4/0	115BKB	HCPK4 and FRAME1	–	1
CR3-9-750250K		250	200BKB	HCPK4 and FRAME1	–	1
CR3-9-750300K		300	200BKB	HCPK4 and FRAME1	–	1
CR3-10-750350K		350	2 X 150BKB	HCPK5 and FRAME2	–	1
CR3-10-750500K		500	2 X 250BKB	HCPK5 and FRAME2	–	1

For connections to extensible (threaded) rods – remove top threaded section.

Exothermic welding system

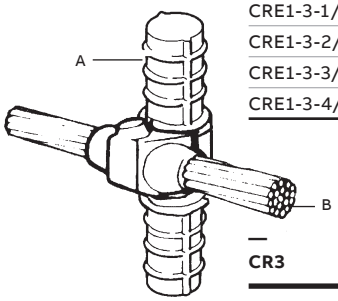
CRE1 and CRE3 cable to rebar



- Stranded conductor
- Solid circular conductor

CRE1

Cat. no.	Rod size A	Wire size (AWG or kcmil) B	Welding powder size	Handle clamp type	Sleeve	Pkg.	Std. qty.
CRE1-4-#43R	3	#4	32BKB	HCPK4	–	–	1
CRE1-4-#2S3R	3	2 solid	45BKB	HCPK4	–	–	1
CRE1-4-#23R	3	#2	45BKB	HCPK4	–	–	1
CRE1-4-#13R	3	#1	65BKB	HCPK4	–	–	1
CRE1-4-1/03R	3	1/0	90BKB	HCPK4	–	–	1
CRE1-4-2/03R	3	2/0	90BKB	HCPK4	–	–	1
CRE1-4-3/03R	3	3/0	115BKB	HCPK4	–	–	1
CRE1-3-#4Z	4 to 7	#4	32BKB	HCPK3B	–	Pack-A	1
CRE1-3-#2SZ	4 to 7	#2 solid	45BKB	HCPK3B	–	Pack-A	1
CRE1-3-#2Z	4 to 7	#2	45BKB	HCPK3B	–	Pack-A	1
CRE1-3-#1Z	4 to 7	#1	65BKB	HCPK3B	–	Pack-A	1
CRE1-3-1/0Z	4 to 7	1/0	90BKB	HCPK3B	–	Pack-A	1
CRE1-3-2/0Z	4 to 7	2/0	90BKB	HCPK3B	–	Pack-A	1
CRE1-3-3/0Z	4 to 7	3/0	115BKB	HCPK3B	–	Pack-A	1
CRE1-3-4/0Z	4 to 7	4/0	115BKB	HCPK3B	–	Pack-A	1
CRE1-3-#4Y	8 to 11	#4	32BKB	HCPK3B	–	Pack-A	1
CRE1-3-#2SY	8 to 11	#2 solid	45BKB	HCPK3B	–	Pack-A	1
CRE1-3-#2Y	8 to 11	#2	45BKB	HCPK3B	–	Pack-A	1
CRE1-3-#1Y	8 to 11	#1	65BKB	HCPK3B	–	Pack-A	1
CRE1-3-1/0Y	8 to 11	1/0	90BKB	HCPK3B	–	Pack-A	1
CRE1-3-2/0Y	8 to 11	2/0	90BKB	HCPK3B	–	Pack-A	1
CRE1-3-3/0Y	8 to 11	3/0	115BKB	HCPK3B	–	Pack-A	1
CRE1-3-4/0Y	8 to 11	4/0	115BKB	HCPK3B	–	Pack-A	1



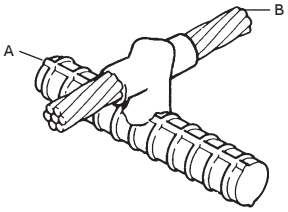
- Stranded conductor
- Solid circular conductor

CR3

Cat. no.	Rod size A	Wire size (AWG or kcmil) B	Welding powder size	Handle clamp type	Sleeve	Pkg.	Std. qty.
CRE3-3-#4Z	4 to 7	#4	90BKB	HCPK3A	–	Pack-A	1
CRE3-3#2SZ	4 to 7	#2 solid	90BKB	HCPK3A	–	Pack-A	1
CRE3-3-#2Z	4 to 7	#2	90BKB	HCPK3A	–	Pack-A	1
CRE3-4-#1Z	4 to 7	#1	115BKB	HCPK3A	–	Pack-A	1
CRE3-4-1/0Z	4 to 7	1/0	115BKB	HCPK3A	–	Pack-A	1
CRE3-4-2/0Z	4 to 7	2/0	115BKB	HCPK3A	–	Pack-A	1
CRE3-4-3/0Z	4 to 7	3/0	150BKB	HCPK3A	–	Pack-A	1
CRE3-4-4/0Z	4 to 7	4/0	150BKB	HCPK3A	–	Pack-A	1
CRE3-3-#4Y	8 to 11	#4	90BKB	HCPK3A	–	Pack-A	1
CRE3-3-#2SY	8 to 11	#2 solid	90BKB	HCPK3A	–	Pack-A	1
CRE3-3-#2Y	8 to 11	#2	90BKB	HCPK3A	–	Pack-A	1
CRE3-4-#1Y	8 to 11	#1	115BKB	HCPK3A	–	Pack-A	1
CRE3-4-1/0Y	8 to 11	1/0	115BKB	HCPK3A	–	Pack-A	1
CRE3-4-2/0Y	8 to 11	2/0	115BKB	HCPK3A	–	Pack-A	1
CRE3-4-3/0Y	8 to 11	3/0	150BKB	HCPK3A	–	Pack-A	1
CRE3-4-4/0Y	8 to 11	4/0	150BKB	HCPK3A	–	Pack-A	1

Exothermic welding system

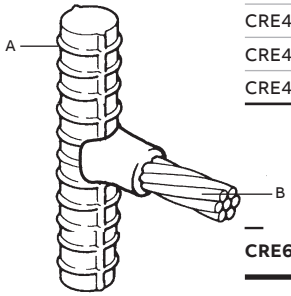
CRE4 and CRE6 cable to rebar



- Stranded conductor
- Solid circular conductor

CRE4

Cat. no.	Rod size A	Wire size (AWG or kcmil) B	Welding powder size	Handle clamp type	Sleeve	Pkg.	Std. qty
CRE4-3-#4Z	4 to 7	#4	65BKB	HCPK3B	–	Pack-A	1
CRE4-3-#2SZ	4 to 7	#2 solid	90BKB	HCPK3B	–	Pack-A	1
CRE4-3-#2Z	4 to 7	#2	90BKB	HCPK3B	–	Pack-A	1
CRE4-3-#1Z	4 to 7	#1	90BKB	HCPK3B	–	Pack-A	1
CRE4-3-1/OZ	4 to 7	1/0	115BKB	HCPK3B	–	Pack-A	1
CRE4-3-2/0Z	4 to 7	2/0	115BKB	HCPK3B	–	Pack-A	1
CRE4-3-3/0Z	4 to 7	3/0	115BKB	HCPK3B	–	Pack-A	1
CRE4-3-4/0Z	4 to 7	4/0	115BKB	HCPK3B	–	Pack-A	1
CRE4-3-#4Y	8 to 11	#4	65BKB	HCPK3B	–	Pack-A	1
CRE4-3-#2SY	8 to 11	#2 solid	90BKB	HCPK3B	–	Pack-A	1
CRE4-3-#2Y	8 to 11	#2	90BKB	HCPK3B	–	Pack-A	1
CRE4-3-#1Y	8 to 11	#1	90BKB	HCPK3B	–	Pack-A	1
CRE4-3-1/0Y	8 to 11	1/0	115BKB	HCPK3B	–	Pack-A	1
CRE4-3-2/0Y	8 to 11	2/0	115BKB	HCPK3B	–	Pack-A	1
CRE4-3-3/0Y	8 to 11	3/0	115BKB	HCPK3B	–	Pack-A	1
CRE4-3-4/0Y	8 to 11	4/0	115BKB	HCPK3B	–	Pack-A	1



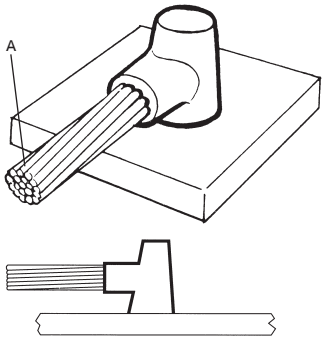
- Stranded conductor
- Solid circular conductor

CRE6

Cat. no.	Rod size A	Wire size (AWG or kcmil) B	Welding powder size	Handle clamp type	Sleeve	Pkg.	Std. qty.
CRE6-3-#4Z	4 to 7	#4	65BKB	HCPK3A	–	Pack-A	1
CRE6-3#2SZ	4 to 7	#2 solid	65BKB	HCPK3A	–	Pack-A	1
CRE6-3-#2Z	4 to 7	#2	65BKB	HCPK3A	–	Pack-A	1
CRE6-3-#1Z	4 to 7	#1	90BKB	HCPK3A	–	Pack-A	1
CRE6-4-1/0Z	4 to 7	1/0	115BKB	HCPK3A	–	Pack-A	1
CRE6-4-2/0Z	4 to 7	2/0	115BKB	HCPK3A	–	Pack-A	1
CRE6-4-3/0Z	4 to 7	3/0	150BKB	HCPK3A	–	Pack-A	1
CRE6-4-4/0Z	4 to 7	4/0	150BKB	HCPK3A	–	Pack-A	1
CRE6-3-#4Y	8 to 11	#4	65BKB	HCPK3A	–	Pack-A	1
CRE6-3-#2SY	8 to 11	#2 solid	65BKB	HCPK3A	–	Pack-A	1
CRE6-3-#2Y	8 to 11	#2	65BKB	HCPK3A	–	Pack-A	1
CRE6-3-#1Y	8 to 11	#1	90BKB	HCPK3A	–	Pack-A	1
CRE6-4-1/0Y	8 to 11	1/0	115BKB	HCPK3A	–	Pack-A	1
CRE6-4-2/0Y	8 to 11	2/0	115BKB	HCPK3A	–	Pack-A	1
CRE6-4-3/0Y	8 to 11	3/0	150BKB	HCPK3A	–	Pack-A	1
CRE6-4-4/0Y	8 to 11	4/0	150BKB	HCPK3A	–	Pack-A	1

Exothermic welding system

CS1 and CS2 cable to steel surface and pipe

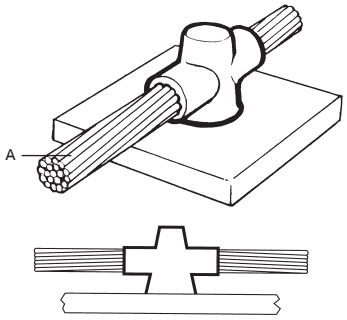


- Stranded conductor
- Solid circular conductor

CS1 – For flat surfaces

Cat. no.	Wire size (AWG or kcmil) A	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CS1-4-1/0	1/0	90BKB	HCPK4	–	1
CS1-4-2/0	2/0	90BKB	HCPK4	–	1
CS1-4-3/0	3/0	115BKB	HCPK4	–	1
CS1-4-4/0	4/0	115BKB	HCPK4	–	1
CS1-4-250K	250	115BKB	HCPK4	–	1
CS1-4-300K	300	150BKB	HCPK4	–	1
CS1-4-350K	350	200BKB	HCPK4	–	1
CS1-4-500K	500	200BKB	HCPK4	–	1
CS1-4-750K	750	2 X 150BKB	HCPK4	–	1
CS1-4-1000K	1,000	2 X 200BKB	HCPK4	–	1

Mold Sealing Compound (MSC) will be required if surface is uneven.



- Stranded conductor
- Solid circular conductor

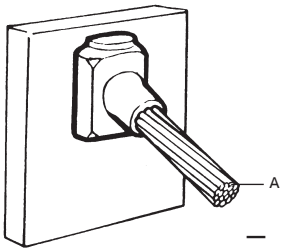
CS2 – For flat surfaces

Cat. no.	Wire size (AWG or kcmil) A	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CS2-4-1/0	1/0	90BKB	HCPK4	–	1
CS2-4-2/0	2/0	115BKB	HCPK4	–	1
CS2-4-3/0	3/0	115BKB	HCPK4	–	1
CS2-4-4/0	4/0	150BKB	HCPK4	–	1
CS2-4-250K	250	150BKB	HCPK4	–	1
CS2-4-300K	300	200BKB	HCPK4	–	1
CS2-4-350K	350	250BKB	HCPK4	–	1
CS2-5-500K	500	2 X 150BKB	HCPK4	–	1

Mold sealing compound (MSC) will be required if surface is uneven.

Exothermic welding system

CS3 cable to steel surface and pipe



- Stranded conductor
- Solid circular conductor

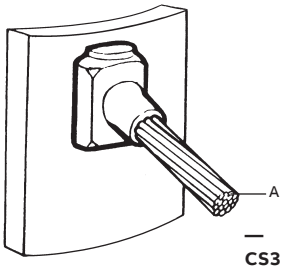
CS3 – For flat surfaces

Cat. no.	Wire size (AWG or kcmil) A	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CS3-4-#6	#6	45BKB	HCPK4	Sleeve#6	1
CS3-4-#4	#4	45BKB	HCPK4	–	1
CS3-4-#2S	#2 solid	45BKB	HCPK4	–	1
CS3-4-#2	#2	45BKB	HCPK4	–	1
CS3-4-#1	#1	65BKB	HCPK4	–	1
CS3-4-1/0	1/0	90BKB	HCPK4	–	1
CS3-4-2/0	2/0	90BKB	HCPK4	–	1
CS3-4-3/0	3/0	115BKB	HCPK4	–	1
CS3-4-4/0	4/0	115BKB	HCPK4	–	1
CS3-4-250K	250	115BKB	HCPK4	–	1
CS3-4-300K	300	150BKB	HCPK4	–	1
CS3-4-350K	350	200BKB	HCPK4	–	1
CS3-4-500K	500	200BKB	HCPK4	–	1
CS3-5-750K	750	2 X 150BKB	HCPK5	–	1
CS3-5-1000K	1,000	2 X 200BKB	HCPK5	–	1

Mold sealing compound (MSC) will be required if surface is uneven.

Exothermic welding system

CS3 cable to steel surface and pipe



- Stranded conductor
- Solid circular conductor

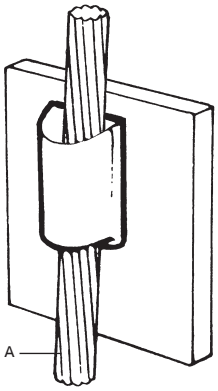
CS3 – For pipes

Cat. no.	Wire size (AWG or kcmil) A	Pipe size (in.)	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CS3-4-#4C	#4	1½ to 2¾	45BKB	HCPK4	–	1
CS3-4-#4D	#4	2¾ to 6½	45BKB	HCPK4	–	1
CS3-4-#4F	#4	6½ to 10	45BKB	HCPK4	–	1
CS3-4-#4G	#4	10 to 14	45BKB	HCPK4	–	1
CS3-4-#2SC	#2 solid	1½ to 2¾	45BKB	HCPK4	–	1
CS3-4-#2SD	#2 solid	2¾ to 6½	45BKB	HCPK4	–	1
CS3-4-#2SF	#2 solid	6½ to 10	45BKB	HCPK4	–	1
CS3-4-#2SG	#2 solid	10 to 14	45BKB	HCPK4	–	1
CS3-4-#2C	#2	1½ to 2¾	45BKB	HCPK4	–	1
CS3-4-#2D	#2	2¾ to 6½	45BKB	HCPK4	–	1
CS3-4-#2F	#2	6½ to 10	45BKB	HCPK4	–	1
CS3-4-#2G	#2	10 to 14	45BKB	HCPK4	–	1
CS3-4-#1C	#1	1½ to 2¾	65BKB	HCPK4	–	1
CS3-4-#1D	#1	2¾ to 6½	65BKB	HCPK4	–	1
CS3-4-#1F	#1	6½ to 10	65BKB	HCPK4	–	1
CS3-4-#1G	#1	10 to 14	65BKB	HCPK4	–	1
CS3-4-#1/0C	1/0	1½ to 2¾	90BKB	HCPK4	–	1
CS3-4-#1/0D	1/0	2¾ to 6½	90BKB	HCPK4	–	1
CS3-4-#1/0F	1/0	6½ to 10	90BKB	HCPK4	–	1
CS3-4-#1/0G	1/0	10 to 14	90BKB	HCPK4	–	1
CS3-4-#2/0C	2/0	1½ to 2¾	90BKB	HCPK4	–	1
CS3-4-#2/0D	2/0	2¾ to 6½	90BKB	HCPK4	–	1
CS3-4-#2/0F	2/0	6½ to 10	90BKB	HCPK4	–	1
CS3-4-#2/0G	2/0	10 to 14	90BKB	HCPK4	–	1
CS3-4-#3/0C	3/0	1½ to 2¾	115BKB	HCPK4	–	1
CS3-4-#3/0D	3/0	2¾ to 6½	115BKB	HCPK4	–	1
CS3-4-#3/0F	3/0	6½ to 10	115BKB	HCPK4	–	1
CS3-4-#3/0G	3/0	10 to 14	115BKB	HCPK4	–	1
CS3-4-#4/0C	4/0	1½ to 2¾	115BKB	HCPK4	–	1
CS3-4-#4/0D	4/0	2¾ to 6½	115BKB	HCPK4	–	1
CS3-4-#4/0F	4/0	6½ to 10	115BKB	HCPK4	–	1
CS3-4-#4/0G	4/0	10 to 14	115BKB	HCPK4	–	1

Over 14 in. use CS3 for flat surface
Use mold sealing compound (MSC) to ensure effective sealing.

Exothermic welding system

CS4 cable to steel surface and pipe



- Stranded conductor
- Solid circular conductor

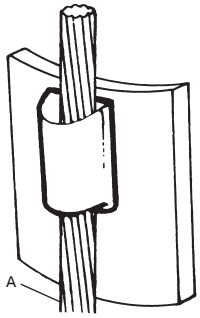
CS4 – For flat surfaces

Cat. no.	Wire size (AWG or kcmil) A	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CS4-4-#6	#6	90BKB	HCPK4	Sleeve#6	1
CS4-4-#4	#4	90BKB	HCPK4	–	1
CS4-4-#2S	#2 solid	115BKB	HCPK4	–	1
CS4-4-#2	#2	115BKB	HCPK4	–	1
CS4-4-#1	#1	115BKB	HCPK4	–	1
CS4-5-1/0	1/0	200BKB	HCPK5	–	1
CS4-5-2/0	2/0	200BKB	HCPK5	–	1
CS4-5-3/0	3/0	250BKB	HCPK5	–	1
CS4-5-4/0	4/0	250BKB	HCPK5	–	1
CS4-5-250K	250	250BKB	HCPK5	–	1

Mold sealing compound (MSC) will be required if surface is uneven.

Exothermic welding system

CS4 cable to steel surface and pipe



- Stranded conductor
- Solid circular conductor

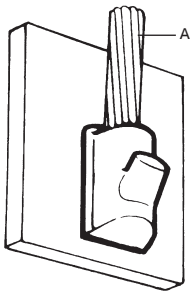
CS4 – For pipes

Cat. no.	Wire size (AWG or kcmil) A	Pipe size (in.)	Welding powder size	Handle clamp type	Sleeve	std. qty.
CS4-4-#4C	#4	1½ to 2¾	90BKB	HCPK4	–	1
CS4-4-#4D	#4	2¾ to 6½	90BKB	HCPK4	–	1
CS4-4-#4F	#4	6½ to 10	90BKB	HCPK4	–	1
CS4-4-#4G	#4	10 to 14	90BKB	HCPK4	–	1
CS4-4-#2SC	#2 solid	1½ to 2¾	115BKB	HCPK4	–	1
CS4-4-#2SD	#2 solid	2¾ to 6½	115BKB	HCPK4	–	1
CS4-4-#2SF	#2 solid	6½ to 10	115BKB	HCPK4	–	1
CS4-4-#2SG	#2 solid	10 to 14	115BKB	HCPK4	–	1
CS4-4-#2C	#2	1½ to 2¾	115BKB	HCPK4	–	1
CS4-4-#2D	#2	2¾ to 6½	115BKB	HCPK4	–	1
CS4-4-#2F	#2	6½ to 10	115BKB	HCPK4	–	1
CS4-4-#2G	#2	10 to 14	115BKB	HCPK4	–	1
CS4-4-#1C	#1	1½ to 2¾	115BKB	HCPK4	–	1
CS4-4-#1D	#1	2¾ to 6½	115BKB	HCPK4	–	1
CS4-4-#1F	#1	6½ to 10	115BKB	HCPK4	–	1
CS4-4-#1G	#1	10 to 14	115BKB	HCPK4	–	1
CS4-5-1/0C	1/0	1½ to 2¾	200BKB	HCPK5	–	1
CS4-5-1/0D	1/0	2¾ to 6½	200BKB	HCPK5	–	1
CS4-5-1/0F	1/0	6½ to 10	200BKB	HCPK5	–	1
CS4-5-1/0G	1/0	10 to 14	200BKB	HCPK5	–	1
CS4-5-2/0C	2/0	1½ to 2¾	200BKB	HCPK5	–	1
CS4-5-2/0D	2/0	2¾ to 6½	200BKB	HCPK5	–	1
CS4-5-2/0F	2/0	6½ to 10	200BKB	HCPK5	–	1
CS4-5-2/0G	2/0	10 to 14	200BKB	HCPK5	–	1
CS4-5-3/0C	3/0	1½ to 2¾	250BKB	HCPK5	–	1
CS4-5-3/0D	3/0	2¾ to 6½	250BKB	HCPK5	–	1
CS4-5-3/0F	3/0	6½ to 10	250BKB	HCPK5	–	1
CS4-5-3/0G	3/0	10 to 14	250BKB	HCPK5	–	1
CS4-5-4/0C	4/0	1½ to 2¾	250BKB	HCPK5	–	1
CS4-5-4/0D	4/0	2¾ to 6½	250BKB	HCPK5	–	1
CS4-5-4/0F	4/0	6½ to 10	250BKB	HCPK5	–	1
CS4-5-4/0G	4/0	10 to 14	250BKB	HCPK5	–	1

Over 14 in. use CS4 for flat surface
Use mold sealing compound (MSC) to ensure effective sealing.

Exothermic welding system

CS7 cable to steel surface and pipe



- Stranded conductor
- Solid circular conductor

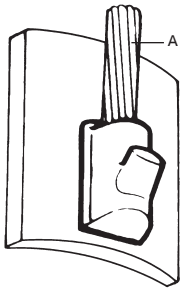
CS7 – For flat surfaces

Cat. no.	Wire size (AWG or kcmil) A	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CS7-4-#4	#4	65BKB	HCPK4	–	1
CS7-4-#2S	#2 solid	65BKB	HCPK4	–	1
CS7-4-#2	#2	65BKB	HCPK4	–	1
CS7-4-#1	#1	90BKB	HCPK4	–	1
CS7-4-1/0	1/0	90BKB	HCPK4	–	1
CS7-4-2/0	2/0	150BKB	HCPK4	–	1
CS7-5-3/0	3/0	200BKB	HCPK4	–	1
CS7-5-4/0	4/0	200BKB	HCPK4	–	1
CS7-5-250K	250	200BKB	HCPK4	–	1
CS7-5-300K	300	250BKB	HCPK4	–	1
CS7-6-350K	350	2 X 150BKB	HCPK5	–	1
CS7-6-500K	500	2 X 200BKB	HCPK5	–	1

Use mold sealing compound (MSC) to ensure effective sealing.

Exothermic welding system

CS7 cable to steel surface and pipe



- Stranded conductor
- Solid circular conductor

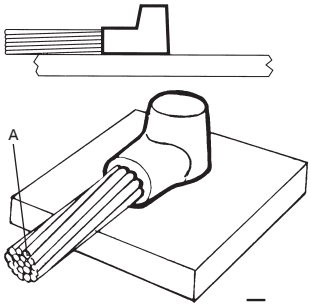
CS7 – For pipes

Cat. no.	Wire size (AWG) A	Pipe size (in.)	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CS7-4-#4C	#4	1½ to 2¾	65BKB	HCPK4	–	1
CS7-4-#4D	#4	2¾ to 6½	65BKB	HCPK4	–	1
CS7-4-#4F	#4	6½ to 10	65BKB	HCPK4	–	1
CS7-4-#4G	#4	10 to 14	65BKB	HCPK4	–	1
CS7-4-#2SC	#2 solid	1½ to 2¾	65BKB	HCPK4	–	1
CS7-4-#2SD	#2 solid	2¾ to 6½	65BKB	HCPK4	–	1
CS7-4-#2SF	#2 solid	6½ to 10	65BKB	HCPK4	–	1
CS7-4-#2SG	#2 solid	10 to 14	65BKB	HCPK4	–	1
CS7-4-#2C	#2	1½ to 2¾	65BKB	HCPK4	–	1
CS7-4-#2D	#2	2¾ to 6½	65BKB	HCPK4	–	1
CS7-4-#2F	#2	6½ to 10	65BKB	HCPK4	–	1
CS7-4-#2G	#2	10 to 14	65BKB	HCPK4	–	1
CS7-4-#1C	#1	1½ to 2¾	90BKB	HCPK4	–	1
CS7-4-#1D	#1	2¾ to 6½	90BKB	HCPK4	–	1
CS7-4-#1F	#1	6½ to 10	90BKB	HCPK4	–	1
CS7-4-#1G	#1	10 to 14	90BKB	HCPK4	–	1
CS7-4-1/0C	1/0	1½ to 2¾	90BKB	HCPK4	–	1
CS7-4-1/0D	1/0	2¾ to 6½	90BKB	HCPK4	–	1
CS7-4-1/0F	1/0	6½ to 10	90BKB	HCPK4	–	1
CS7-4-1/0G	1/0	10 to 14	90BKB	HCPK4	–	1
CS7-4-2/0C	2/0	1½ to 2¾	150BKB	HCPK4	–	1
CS7-4-2/0D	2/0	2¾ to 6½	150BKB	HCPK4	–	1
CS7-4-2/0F	2/0	6½ to 10	150BKB	HCPK4	–	1
CS7-4-2/0G	2/0	10 to 14	150BKB	HCPK4	–	1
CS7-5-3/0C	3/0	1½ to 2¾	200BKB	HCPK4	–	1
CS7-5-3/0D	3/0	2¾ to 6½	200BKB	HCPK4	–	1
CS7-5-3/0F	3/0	6½ to 10	200BKB	HCPK4	–	1
CS7-5-3/0G	3/0	10 to 14	200BKB	HCPK4	–	1
CS7-5-4/0C	4/0	1½ to 2¾	200BKB	HCPK4	–	1
CS7-5-4/0D	4/0	2¾ to 6½	200BKB	HCPK4	–	1
CS7-5-4/0F	4/0	6½ to 10	200BKB	HCPK4	–	1
CS7-5-4/0G	4/0	10 to 14	200BKB	HCPK4	–	1

Over 14 in. use CS7 for flat surface.
Use mold sealing compound (MSC) to ensure effective sealing.

Exothermic welding system

CS8 and CS9 cable to steel surface and pipe

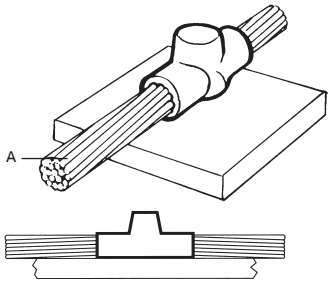


- Stranded conductor
- Solid circular conductor

CS8 – For flat surfaces

Cat. no.	Wire size (AWG) A	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CS8-2-#6	#6	45BKB	HCPK2	Sleeve#6	1
CS8-2-#4	#4	45BKB	HCPK2	–	1
CS8-2-#2S	#2 solid	45BKB	HCPK2	–	1
CS8-2-#2	#2	45BKB	HCPK2	–	1
CS8-2-#1	#1	65BKB	HCPK2	–	1

Use mold sealing compound (MSC) to ensure effective sealing.



- Stranded conductor
- Solid circular conductor

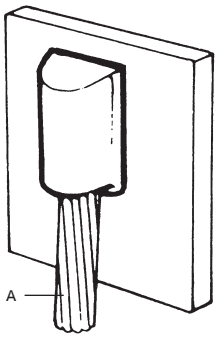
CS9 – For flat surfaces

Cat. no.	Wire size (AWG) A	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CS9-2-#6	#6	45BKB	HCPK2	Sleeve#6	1
CS9-2-#4	#4	45BKB	HCPK2	–	1
CS9-2-#2S	#2 solid	45BKB	HCPK2	–	1
CS9-2-#2	#2	45BKB	HCPK2	–	1
CS9-2-#1	#1	65BKB	HCPK2	–	1

Use mold sealing compound (MSC) to ensure effective sealing.

Exothermic welding system

CS25 cable to steel surface and pipe



- Stranded conductor
- Solid circular conductor

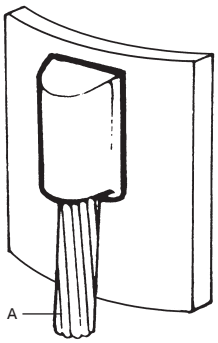
CS25 – For flat surfaces

Cat. no.	Wire size (AWG or kcmil) A	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CS25-4-#4	#4	65BKB	HCPK4	–	1
CS25-4-#2S	#2 solid	65BKB	HCPK4	–	1
CS25-4-#2	#2	65BKB	HCPK4	–	1
CS25-4-#1	#1	90BKB	HCPK4	–	1
CS25-4-1/0	1/0	115BKB	HCPK4	–	1
CS25-4-2/0	2/0	115BKB	HCPK4	–	1
CS25-4-3/0	3/0	150BKB	HCPK4	–	1
CS25-4-4/0	4/0	150BKB	HCPK4	–	1
CS25-4-250K	250	200BKB	HCPK4	–	1
CS25-4-300K	300	200BKB	HCPK4	–	1
CS25-4-350K	350	250BKB	HCPK4	–	1
CS25-4-500K	500	250BKB	HCPK4	–	1

Use mold sealing compound (MSC) to ensure effective sealing.

Exothermic welding system

CS25 cable to steel surface and pipe



- Stranded conductor
- Solid circular conductor

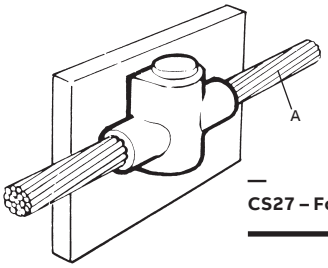
CS25 – For pipes

Cat. no.	Wire size (AWG) A	Pipe size (in.)	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CS25-4-#4C	#4	1½ to 2¾	65BKB	HCPK4	–	1
CS25-4-#4D	#4	2¾ to 6½	65BKB	HCPK4	–	1
CS25-4-#4F	#4	6½ to 10	65BKB	HCPK4	–	1
CS25-4-#4G	#4	10 to 14	65BKB	HCPK4	–	1
CS25-4-#2SC	#2 solid	1½ to 2¾	65BKB	HCPK4	–	1
CS25-4-#2SD	#2 solid	2¾ to 6½	65BKB	HCPK4	–	1
CS25-4-#2SF	#2 solid	6½ to 10	65BKB	HCPK4	–	1
CS25-4-#2SG	#2 solid	10 to 14	65BKB	HCPK4	–	1
CS25-4-#2C	#2	1½ to 2¾	65BKB	HCPK4	–	1
CS25-4-#2D	#2	2¾ to 6½	65BKB	HCPK4	–	1
CS25-4-#2F	#2	6½ to 10	65BKB	HCPK4	–	1
CS25-4-#2G	#2	10 to 14	65BKB	HCPK4	–	1
CS25-4-#1C	#1	1½ to 2¾	90BKB	HCPK4	–	1
CS25-4-#1D	#1	2¾ to 6½	90BKB	HCPK4	–	1
CS25-4-#1F	#1	6½ to 10	90BKB	HCPK4	–	1
CS25-4-#1G	#1	10 to 14	90BKB	HCPK4	–	1
CS25-4-1/0C	1/0	1½ to 2¾	90BKB	HCPK4	–	1
CS25-4-1/0D	1/0	2¾ to 6½	90BKB	HCPK4	–	1
CS25-4-1/0F	1/0	6½ to 10	90BKB	HCPK4	–	1
CS25-4-1/0G	1/0	10 to 14	90BKB	HCPK4	–	1
CS25-4-2/0C	2/0	1½ to 2¾	150BKB	HCPK4	–	1
CS25-4-2/0D	2/0	2¾ to 6½	150BKB	HCPK4	–	1
CS25-4-2/0F	2/0	6½ to 10	150BKB	HCPK4	–	1
CS25-4-2/0G	2/0	10 to 14	150BKB	HCPK4	–	1
CS25-4-3/0C	3/0	1½ to 2¾	200BKB	HCPK4	–	1
CS25-4-3/0D	3/0	2¾ to 6½	200BKB	HCPK4	–	1
CS25-4-3/0F	3/0	6½ to 10	200BKB	HCPK4	–	1
CS25-4-3/0G	3/0	10 to 14	200BKB	HCPK4	–	1
CS25-4-4/0C	4/0	1½ to 2¾	200BKB	HCPK4	–	1
CS25-4-4/0D	4/0	2¾ to 6½	200BKB	HCPK4	–	1
CS25-4-4/0F	4/0	6½ to 10	200BKB	HCPK4	–	1
CS25-4-4/0G	4/0	10 to 14	200BKB	HCPK4	–	1

Over 14 in. use CS25 for flat surface.
Use mold sealing compound (MSC) to ensure effective sealing.

Exothermic welding system

CS27 cable to steel surface and pipe



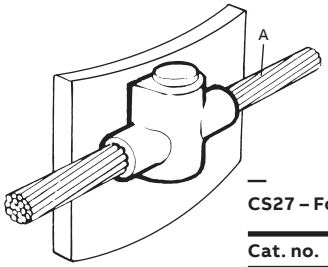
- Stranded conductor
- Solid circular conductor

CS27 – For flat surfaces

Cat. no.	Wire size (AWG or kcmil) A	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CS27-4-#6	#6	45BKB	HCPK4	Sleeve#6	1
CS27-4-#4	#4	45BKB	HCPK4	–	1
CS27-4-#2S	#2 solid	45BKB	HCPK4	–	1
CS27-4-#2	#2	45BKB	HCPK4	–	1
CS27-4-#1	#1	65BKB	HCPK4	–	1
CS27-4-1/0	1/0	115BKB	HCPK4	–	1
CS27-4-2/0	2/0	115BKB	HCPK4	–	1
CS27-4-3/0	3/0	150BKB	HCPK4	–	1
CS27-4-4/0	4/0	150BKB	HCPK4	–	1
CS27-4-250K	250	150BKB	HCPK4	–	1

Exothermic welding system

CS27 cable to steel surface and pipe



- Stranded conductor
- Solid circular conductor

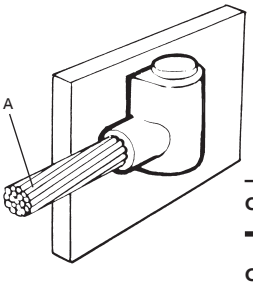
CS27 – For pipes

Cat. no.	Wire size (AWG) A	Pipe size (in.)	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CS27-4-#4C	#4	1½ to 2¾	45BKB	HCPK4	–	1
CS27-4-#4D	#4	2¾ to 6½	45BKB	HCPK4	–	1
CS27-4-#4F	#4	6½ to 10	45BKB	HCPK4	–	1
CS27-4-#4G	#4	10 to 14	45BKB	HCPK4	–	1
CS27-4-#2SC	#2 solid	1½ to 2¾	45BKB	HCPK4	–	1
CS27-4-#2SD	#2 solid	2¾ to 6½	45BKB	HCPK4	–	1
CS27-4-#2SF	#2 solid	6½ to 10	45BKB	HCPK4	–	1
CS27-4-#2SG	#2 solid	10 to 14	45BKB	HCPK4	–	1
CS27-4-#2C	#2	1½ to 2¾	45BKB	HCPK4	–	1
CS27-4-#2D	#2	2¾ to 6½	45BKB	HCPK4	–	1
CS27-4-#2F	#2	6½ to 10	45BKB	HCPK4	–	1
CS27-4-#2G	#2	10 to 14	45BKB	HCPK4	–	1
CS27-4-#1C	#1	1½ to 2¾	65BKB	HCPK4	–	1
CS27-4-#1D	#1	2¾ to 6½	65BKB	HCPK4	–	1
CS27-4-#1F	#1	6½ to 10	65BKB	HCPK4	–	1
CS27-4-#1G	#1	10 to 14	65BKB	HCPK4	–	1
CS27-4-110C	1/0	1½ to 2¾	115BKB	HCPK4	–	1
CS27-4-110D	1/0	2¾ to 6½	115BKB	HCPK4	–	1
CS27-4-110F	1/0	6½ to 10	115BKB	HCPK4	–	1
CS27-4-110G	1/0	10 to 14	115BKB	HCPK4	–	1
CS27-4-210C	2/0	1½ to 2¾	115BKB	HCPK4	–	1
CS27-4-210D	2/0	2¾ to 6½	115BKB	HCPK4	–	1
CS27-4-210F	2/0	6½ to 10	115BKB	HCPK4	–	1
CS27-4-210G	2/0	10 to 14	115BKB	HCPK4	–	1
CS27-4-310C	3/0	1½ to 2¾	150BKB	HCPK4	–	1
CS27-4-310D	3/0	2¾ to 6½	150BKB	HCPK4	–	1
CS27-4-310F	3/0	6½ to 10	150BKB	HCPK4	–	1
CS27-4-310G	3/0	10 to 14	150BKB	HCPK4	–	1
CS27-4-410C	4/0	1½ to 2¾	150BKB	HCPK4	–	1
CS27-4-410D	4/0	2¾ to 6½	150BKB	HCPK4	–	1
CS27-4-410F	4/0	6½ to 10	150BKB	HCPK4	–	1
CS27-4-410G	4/0	10 to 14	150BKB	HCPK4	–	1

Over 14 in. use CS27 for flat surface.
Use mold sealing compound (MSC) to ensure effective sealing.

Exothermic welding system

CS31 cable to steel surface and pipe



- Stranded conductor
- Solid circular conductor

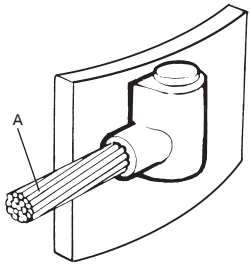
CS31 – For flat surfaces

Cat. no.	Wire size (AWG or kcmil) A	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CS31-4-#6	#6	45BKB	HCPK4	Sleeve#6	1
CS31-4-#4	#4	45BKB	HCPK4	–	1
CS31-4-#2S	#2 solid	45BKB	HCPK4	–	1
CS31-4-#2	#2	45BKB	HCPK4	–	1
CS31-4-#1	#1	65BKB	HCPK4	–	1
CS31-4-1/0	1/0	90BKB	HCPK4	–	1
CS31-4-2/0	2/0	90BKB	HCPK4	–	1
CS31-4-3/0	3/0	115BKB	HCPK4	–	1
CS31-4-4/0	4/0	115BKB	HCPK4	–	1
CS31-4-250K	250	115BKB	HCPK4	–	1

Add “R” or “L” to denote wire exiting left or right. (Example: CS31-6-#6R for #6 wire exiting on the right.)
Use mold sealing compound (MSC) to ensure effective sealing.

Exothermic welding system

CS31 cable to steel surface and pipe



- Stranded conductor
- Solid circular conductor

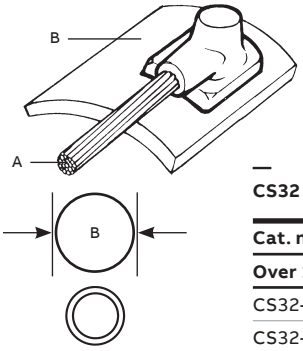
CS31 – For pipes

Cat. no.	Wire size (AWG) A	Pipe size (in.)	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CS31-4-#4C	#4	1½ to 2¾	45BKB	HCPK4	–	1
CS31-4-#4D	#4	2¾ to 6½	45BKB	HCPK4	–	1
CS31-4-#4F	#4	6½ to 10	45BKB	HCPK4	–	1
CS31-4-#4G	#4	10 to 14	45BKB	HCPK4	–	1
CS31-4-#2SC	#2 solid	1½ to 2¾	45BKB	HCPK4	–	1
CS31-4-#2SD	#2 solid	2¾ to 6½	45BKB	HCPK4	–	1
CS31-4-#2SF	#2 solid	6½ to 10	45BKB	HCPK4	–	1
CS31-4-#2SG	#2 solid	10 to 14	45BKB	HCPK4	–	1
CS31-4-#2C	#2	1½ to 2¾	45BKB	HCPK4	–	1
CS31-4-#2D	#2	2¾ to 6½	45BKB	HCPK4	–	1
CS31-4-#2F	#2	6½ to 10	45BKB	HCPK4	–	1
CS31-4-#2G	#2	10 to 14	45BKB	HCPK4	–	1
CS31-4-#1C	#1	1½ to 2¾	65BKB	HCPK4	–	1
CS31-4-#1D	#1	2¾ to 6½	65BKB	HCPK4	–	1
CS31-4-#1F	#1	6½ to 10	65BKB	HCPK4	–	1
CS31-4-#1G	#1	10 to 14	65BKB	HCPK4	–	1
CS31-4-1/0C	1/0	1½ to 2¾	90BKB	HCPK4	–	1
CS31-4-1/0D	1/0	2¾ to 6½	90BKB	HCPK4	–	1
CS31-4-1/0F	1/0	6½ to 10	90BKB	HCPK4	–	1
CS31-4-1/0G	1/0	10 to 14	90BKB	HCPK4	–	1
CS31-4-2/0C	2/0	1½ to 2¾	90BKB	HCPK4	–	1
CS31-4-2/0D	2/0	2¾ to 6½	90BKB	HCPK4	–	1
CS31-4-2/0F	2/0	6½ to 10	90BKB	HCPK4	–	1
CS31-4-2/0G	2/0	10 to 14	90BKB	HCPK4	–	1
CS31-4-3/0C	3/0	1½ to 2¾	115BKB	HCPK4	–	1
CS31-4-3/0D	3/0	2¾ to 6½	115BKB	HCPK4	–	1
CS31-4-3/0F	3/0	6½ to 10	115BKB	HCPK4	–	1
CS31-4-3/0G	3/0	10 to 14	115BKB	HCPK4	–	1
CS31-4-4/0C	4/0	1½ to 2¾	115BKB	HCPK4	–	1
CS31-4-4/0D	4/0	2¾ to 6½	115BKB	HCPK4	–	1
CS31-4-4/0F	4/0	6½ to 10	115BKB	HCPK4	–	1
CS31-4-4/0G	4/0	10 to 14	115BKB	HCPK4	–	1

Over 14 in. use CS31 for flat surface.
Add “R” or “L” to denote wire exiting left or right. (Example: CS31-6-#6R for #6 wire exiting on the right.)
Use mold sealing compound (MSC) to ensure effective sealing.

Exothermic welding system

CS32 cable to steel surface and pipe



- Stranded conductor

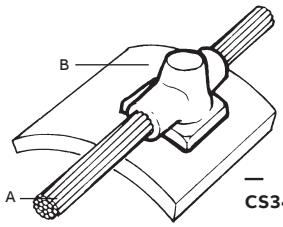
CS32 – For pipes

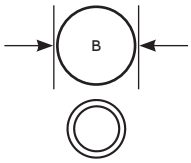
Cat. no.	Wire size (AWG) A	Pipe size (in.)	Welding powder size	Handle clamp type	Sleeve	Std. qty.
Over 14 in. use CS8 for flat surface						
CS32-2-#4C	#4	1½ to 2¾	45BKB	HCPK2	–	1
CS32-2-#4D	#4	2¾ to 6½	45BKB	HCPK2	–	1
CS32-2-#4F	#4	6½ to 10	45BKB	HCPK2	–	1
CS32-2-#4G	#4	10 to 14	45BKB	HCPK2	–	1
CS32-2-#2SC	#2 solid	1½ to 2¾	45BKB	HCPK2	–	1
CS32-2-#2SD	#2 solid	2¾ to 6½	45BKB	HCPK2	–	1
CS32-2-#2SF	#2 solid	6½ to 10	45BKB	HCPK2	–	1
CS32-2-#2SG	#2 solid	10 to 14	45BKB	HCPK2	–	1
CS32-2-#2C	#2	1½ to 2¾	45BKB	HCPK2	–	1
CS32-2-#2D	#2	2¾ to 6½	45BKB	HCPK2	–	1
CS32-2-#2F	#2	6½ to 10	45BKB	HCPK2	–	1
CS32-2-#2G	#2	10 to 14	45BKB	HCPK2	–	1
CS32-2-#1D	#1	2¾ to 6½	65BKB	HCPK2	–	1
CS32-2-#1F	#1	6½ to 10	65BKB	HCPK2	–	1
CS32-2-#1G	#1	10 to 14	65BKB	HCPK2	–	1
Over 14 in. use CS1 for flat surface						
CS32-4-#1/0D	1/0	2¾ to 6½	90BKB	HCPK4	–	1
CS32-4-#1/0F	1/0	6½ to 10	90BKB	HCPK4	–	1
CS32-4-#1/0G	1/0	10 to 14	90BKB	HCPK4	–	1
CS32-4-#2/0D	2/0	2¾ to 6½	90BKB	HCPK4	–	1
CS32-4-#2/0F	2/0	6½ to 10	90BKB	HCPK4	–	1
CS32-4-#2/0G	2/0	10 to 14	90BKB	HCPK4	–	1
CS32-4-#3/0D	3/0	2¾ to 6½	90BKB	HCPK4	–	1
CS32-4-#3/0F	3/0	6½ to 10	90BKB	HCPK4	–	1
CS32-4-#3/0G	3/0	10 to 14	90BKB	HCPK4	–	1
CS32-4-#4/0D	4/0	2¾ to 6½	90BKB	HCPK4	–	1
CS32-4-#4/0F	4/0	6½ to 10	90BKB	HCPK4	–	1
CS32-4-#4/0G	4/0	10 to 14	90BKB	HCPK4	–	1

Add “R” or “L” to denote wire exiting left or right. (Example: CS31-6-#6R for #6 wire exiting on the right.)
Use mold sealing compound (MSC) to ensure effective sealing.

Exothermic welding system

CS34 cable to steel surface and pipe





- Stranded conductor

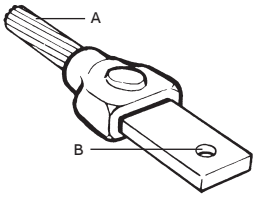
CS34 – For pipes

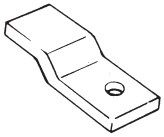
Cat. no.	Wire size (AWG) A	Pipe size (in.)	Welding powder size	Handle clamp type	Sleeve	Std. qty.
Over 14 in. use CS8 for flat surface						
CS34-2-#4C	#4	1½ to 2¾	45BKB	HCPK2	–	1
CS34-2-#4D	#4	2¾ to 6½	45BKB	HCPK2	–	1
CS34-2-#4F	#4	6½ to 10	45BKB	HCPK2	–	1
CS34-2-#4G	#4	10 to 14	45BKB	HCPK2	–	1
CS34-2-#2SC	#2 solid	1½ to 2¾	45BKB	HCPK2	–	1
CS34-2-#2SD	#2 solid	2¾ to 6½	45BKB	HCPK2	–	1
CS34-2-#2SF	#2 solid	6½ to 10	45BKB	HCPK2	–	1
CS34-2-#2SG	#2 solid	10 to 14	45BKB	HCPK2	–	1
CS34-2-#2C	#2	1½ to 2¾	45BKB	HCPK2	–	1
CS34-2-#2D	#2	2¾ to 6½	45BKB	HCPK2	–	1
CS34-2-#2F	#2	6½ to 10	45BKB	HCPK2	–	1
CS34-2-#2G	#2	10 to 14	45BKB	HCPK2	–	1
CS34-2-#1D	#1	2¾ to 6½	65BKB	HCPK2	–	1
CS34-2-#1F	#1	6½ to 10	65BKB	HCPK2	–	1
CS34-2-#1G	#1	10 to 14	65BKB	HCPK2	–	1
Over 14 in. use CS1 for flat surface						
CS34-4-#1/0D	1/0	2¾ to 6½	90BKB	HCPK4	–	1
CS34-4-#1/0F	1/0	6½ to 10	90BKB	HCPK4	–	1
CS34-4-#1/0G	1/0	10 to 14	90BKB	HCPK4	–	1
CS34-4-#2/0D	2/0	2¾ to 6½	115BKB	HCPK4	–	1
CS34-4-#2/0F	2/0	6½ to 10	115BKB	HCPK4	–	1
CS34-4-#2/0G	2/0	10 to 14	115BKB	HCPK4	–	1
CS34-4-#3/0D	3/0	2¾ to 6½	115BKB	HCPK4	–	1
CS34-4-#3/0F	3/0	6½ to 10	115BKB	HCPK4	–	1
CS34-4-#3/0G	3/0	10 to 14	115BKB	HCPK4	–	1
CS34-4-#4/0D	4/0	2¾ to 6½	150BKB	HCPK4	–	1
CS34-4-#4/0F	4/0	6½ to 10	150BKB	HCPK4	–	1
CS34-4-#4/0G	4/0	10 to 14	150BKB	HCPK4	–	1

Use mold sealing compound (MSC) to ensure effective sealing.

Exothermic welding system

CB1 cable to bare





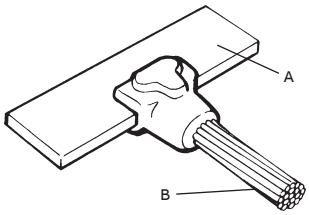
- Stranded conductor
- Solid circular conductor
- Rectangular tape or bar

CB1 – For pipes

Cat. no.	Wire size (AWG or kcmil) A	Bar size (in.) B	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CB1-4-#4181	#4	⅛ X 1	45BKB	HCPK4	–	1
CB1-4-#2181	#2 solid	⅛ X 1	45BKB	HCPK4	–	1
CB1-4-#2181	#2	⅛ X 1	45BKB	HCPK4	–	1
CB1-4-#1181	#1	⅛ X 1	45BKB	HCPK4	–	1
CB1-4-1/0181	1/0	⅛ X 1	45BKB	HCPK4	–	1
CB1-4-1/03161	1/0	3⁄16 X 1	65BKB	HCPK4	–	1
CB1-4-1/0141	1/0	¼ X 1	65BKB	HCPK4	–	1
CB1-4-2/0181	2/0	⅛ X 1	65BKB	HCPK4	–	1
CB1-4-2/03161	2/0	3⁄16 X 1	65BKB	HCPK4	–	1
CB1-4-2/0141	2/0	¼ X 1	65BKB	HCPK4	–	1
CB1-4-3/018	3/0	⅛ X 1	65BKB	HCPK4	–	1
CB1-4-3/0161	2/0	3⁄16 X 1	90BKB	HCPK4	–	1
CB1-4-3/0141	2/0	¼ X 1	90BKB	HCPK4	–	1
CB1-4-4/03161	4/0	3⁄16 X 1	90BKB	HCPK4	–	1
CB1-4-4/0141	4/0	¼ X 1	90BKB	HCPK4	–	1
CB1-4-4/014112	4/0	¼ X 1½	90BKB	HCPK4	–	1
CB1-4-4/0142	4/0	¼ X 2	90BKB	HCPK4	–	1
CB1-4-4/0143	4/0	¼ X 3	90BKB	HCPK4	–	1
CB1-4-250K3161	250	3⁄16 X 1	90BKB	HCPK4	–	1
CB1-4-250K141	250	¼ X 1	90BKB	HCPK4	–	1
CB1-4-250K14112	250	¼ X 1½	90BKB	HCPK4	–	1
CB1-4-250K142	250	¼ X 2	90BKB	HCPK4	–	1
CB1-4-250K143	250	¼ X 3	90BKB	HCPK4	–	1
CB1-4-300K141	300	¼ X 1	90BKB	HCPK4	–	1
CB1-4-300K14112	300	¼ X 1-½	90BKB	HCPK4	–	1
CB1-4-300K142	300	¼ X 2	90BKB	HCPK4	–	1
CB1-4-300K143	300	¼ X 3	90BKB	HCPK4	–	1
CB1-4-350K141	350	¼ X 1	115BKB	HCPK4	–	1
CB1-4-350K14112	350	¼ X 1½	115BKB	HCPK4	–	1
CB1-4-350K142	350	¼ X 2	115BKB	HCPK4	–	1
CB1-4-350K143	350	¼ X 3	115BKB	HCPK4	–	1
CB1-4-500K14112	500	¼ X 1½	200BKB	HCPK4	–	1
CB1-4-500K142	500	¼ X 2	200BKB	HCPK4	–	1
CB1-4-500K143	500	¼ X 3	200BKB	HCPK4	–	1
CB1-4-500K38112	500	⅜ X1½	200BKB	HCPK4	–	1
CB1-5-750K142	750	¼ X 2	2 X 150BKB	HCPK5	–	1
CB1-5-750K143	750	¼ X 3	2 X 150BKB	HCPK5	–	1
CB1-5-750k38112	750	⅜ X 1½	2 X 150BKB	HCPK5	–	1
CB1-5-750k382	750	⅜ X 2	2 X 150BKB	HCPK5	–	1
CB1-5-750K383	750	⅜ X 3	2 X 150BKB	HCPK5	–	1
CB1-5-1000K143	1,000	¼ X 3	2 X 150BKB	HCPK5	–	1
CB1-5-1000K382	1,000	⅜ X 2	2 X 150BKB	HCPK5	–	1
CB1-5-1000K383	1,000	⅜ X 3	2 X 150BKB	HCPK5	–	1
CB1-5-1000K122	1,000	½ X 2	2 X 150BKB	HCPK5	–	1
CB1-5-1000K123	1,000	½ X 3	2 X 150BKB	HCPK5	–	1

Exothermic welding system

CB4 cable to bar



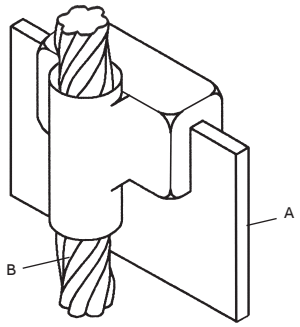
- Stranded conductor
- Solid circular conductor
- Rectangular tape or bar

CB4 – For flat surfaces

Cat. no.	Bar size (in.) A	Wire size (AWG or kcmil) B	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CB4-4-#2S14112	¼ X 1½ and wider	#2 solid	45BKB	HCPK4	–	1
CB4-4-214112	¼ X 1½ and wider	#2	45BKB	HCPK4	–	1
CB4-4-1/014112	¼ X 1½ and wider	1/0	90BKB	HCPK4	–	1
CB4-4-2/014112	¼ X 1½ and wider	2/0	90BKB	HCPK4	–	1
CB4-4-3/014112	¼ X 1½ and wider	3/0	90BKB	HCPK4	–	1
CB4-4-4/014112	¼ X 1½ and wider	4/0	90BKB	HCPK4	–	1
CB4-4-250K14112	¼ X 1½ and wider	250	115BKB	HCPK4	–	1
CB4-4-300K14112	¼ X 1½ and wider	300	115BKB	HCPK4	–	1
CB4-4-350K14112	¼ X 1½ and wider	350	150BKB	HCPK4	–	1
CB4-4-500K1411	¼ X 1½ and wider	500	200BKB	HCPK4	–	1
CB4-4-#2S38112	⅜ X 1½ and wider	#2 solid	65BKB	HCPK4	–	1
CB4-4-#238112	⅜ X 1½ and wider	#2	65BKB	HCPK4	–	1
CB4-4-1/038112	⅜ X 1½ and wider	1/0	90BKB	HCPK4	–	1
CB4-4-2/038112	⅜ X 1½ and wider	2/0	90BKB	HCPK4	–	1
CB4-4-4/038112	⅜ X 1½ and wider	4/0	115BKB	HCPK4	–	1
CB4-4-250K38112	⅜ X 1½ and wider	250	150BKB	HCPK4	–	1
CB4-4-300K38112	⅜ X 1½ and wider	300	150BKB	HCPK4	–	1
CB4-4-350K38112	⅜ X 1½ and wider	350	200BKB	HCPK4	–	1
CB4-4-500K38112	⅜ X 1½ and wider	500	250BKB	HCPK4	–	1
CB4-5-750K38112	⅜ X 1½ and wider	750	2 X 150BKB	HCPK5	–	1
CB4-5-1000K38112	⅜ X 1½ and wider	1,000	2 X 200BKB	HCPK5	–	1
CB4-4-#2S12112	½ X 1½ and wider	#2 solid	90BKB	HCPK4	–	1
CB4-4-#212112	½ X 1½ and wider	#2	90BKB	HCPK4	–	1
CB4-4-1/012112	½ X 1½ and wider	1/0	115BKB	HCPK4	–	1
CB4-4-2/012112	½ X 1½ and wider	2/0	115BKB	HCPK4	–	1
CB4-4-3/012112	½ X 1½ and wider	3/0	150BKB	HCPK4	–	1
CB4-4-4/012112	½ X 1½ and wider	4/0	150BKB	HCPK4	–	1
CB4-4-250K12112	½ X 1½ and wider	250	200BKB	HCPK4	–	1
CB4-4-300K12112	½ X 1½ and wider	300	200BKB	HCPK4	–	1
CB4-4-350K12112	½ X 1½ and wider	350	250BKB	HCPK4	–	1
CB4-5-500K12112	½ X 1½ and wider	500	2 X 150BKB	HCPK5	–	1
CB4-5-750K12112	½ X 1½ and wider	750	2 X 200BKB	HCPK5	–	1
CB4-5-1000K12112	½ X 1½ and wider	1,000	2 X 250BKB	HCPK5	–	1

Exothermic welding system

CB29 cable to bar



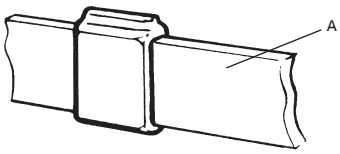
CB29 – For flat surfaces

Cat. no.	Bar size (in.) A	Wire size (AWG or kcmil) B	Welding powder size	Handle clamp type	Sleeve	Std. qty.
CB29-9-#2S142	¼ X 2 and wider	#2 solid	250BKB	HCPK4	–	1
CB29-9-#2142	¼ X 2 and wider	#2	250BKB	HCPK4	–	1
CB29-10-#1142	¼ X 2 and wider	#1	2 X 150BKB	HCPK5	–	1
CB29-10-1/0142	¼ X 2 and wider	1/0	2 X 200BKB	HCPK5	–	1
CB29-10-2/0142	¼ X 2 and wider	2/0	2 X 200BKB	HCPK5	–	1
CB29-10-4/0142	¼ X 2 and wider	4/0	2 X 250BKB	HCPK5	–	1
CB29-10-250K142	¼ X 2 and wider	250	2 X 250BKB	HCPK5	–	1
CB29-10-500K142	¼ X 2 and wider	500	2 X 250BKB	HCPK5	–	1
CB29-10-750K142	¼ X 2 and wider	750	3 X 200BKB	HCPK5	–	1
CB29-9-#2S382	⅜ X 2 and wider	#2 solid	250BKB	HCPK4	–	1
CB29-9-#2382	⅜ X 2 and wider	#2 solid	250BKB	HCPK4	–	1
CB29-10-#1382	⅜ X 2 and wider	#1	2 X 150BKB	HCPK5	–	1
CB29-10-1/0382	⅜ X 2 and wider	1/0	2 X 200BKB	HCPK5	–	1
CB29-102/0382	⅜ X 2 and wider	2/0	2 X 200BKB	HCPK5	–	1
CB29-104/0382	⅜ X 2 and wider	4/0	2 X 250BKB	HCPK5	–	1
CB29-10-250K382	⅜ X 2 and wider	250	2 X 250BKB	HCPK5	–	1
CB29-10-500K382	⅜ X 2 and wider	500	2 X 250BKB	HCPK5	–	1
CB29-10-750K382	⅜ X 2 and wider	750	3 X 200BKB	HCPK5	–	1
CB29-10-#2S122	½ X 2 and wider	#2 solid	2 X 150BKB	HCPK5	–	1
CB29-10-#2122	½ X 2 and wider	#2	2 X 150BKB	HCPK5	–	1
CB29-10-#1122	½ X 2 and wider	#1	2 X 200BKB	HCPK5	–	1
CB29-10-1/0122	½ X 2 and wider	1/0	2 X 250BKB	HCPK5	–	1
CB29-10-2/0122	½ X 2 and wider	2/0	2 X 250BKB	HCPK5	–	1
CB29-10-4/0122	½ X 2 and wider	4/0	3 X 200BKB	HCPK5	–	1
CB29-10-250K122	½ X 2 and wider	250	3 X 200BKB	HCPK5	–	1
CB29-10-500K122	½ X 2 and wider	500	3 X 200BKB	HCPK5	–	1
CB29-10-750K	½ X 2 and wider	750	3 X 250BKB	HCPK5	–	1

Use mold sealing compound (MSC) to ensure effective sealing.

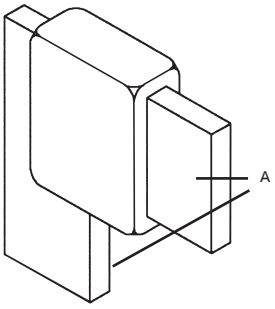
Exothermic welding system

BB1 and BB2 bar to bar



BB1 – For flat surfaces

Cat. no.	Bar size (in.) A	Welding powder size	Handle clamp type	Sleeve	Std. qty.
BB1-4-181	⅛ X 1	45BKB	HCPK4	–	1
BB1-4-18112	⅛ X 1½	65BKB	HCPK4	–	1
BB1-4-182	⅛ X 2	90BKB	HCPK4	–	1
BB1-4-183	⅛ X 3	200BKB	HCPK4	–	1
BB1-4-184	⅛ X 4	250BKB	HCPK4	–	1
BB1-4-3161	3⁄16 X 1	65BKB	HCPK4	–	1
BB1-4-3162	3⁄16 X 2	115BKB	HCPK4	–	1
BB1-4-141	¼ X 1	90BKB	HCPK4	–	1
BB1-4-14114	¼ X 1¼	115BKB	HCPK4	–	1
BB1-4-14112	¼ X 1½	150BKB	HCPK4	–	1
BB1-4-142	¼ X 2	200BKB	HCPK4	–	1
BB1-4-14212	¼ X 2½	250BKB	HCPK4	–	1
BB1-5-143	¼ X 3	2 X 200BKB	HCPK5	–	1
BB1-5-144	¼ X 4	2 X 250BKB	HCPK5	–	1
BB1-4-381	⅜ X 1	150BKB	HCPK5	–	1
BB1-4-38112	⅜ X 1½	250BKB	HCPK4	–	1
BB1-5-382	⅜ X 2	2 X 150BKB	HCPK5	–	1
BB1-5-383	⅜ X 3	2 X 250BKB	HCPK5	–	1
BB1-5-384	⅜ X 4	3 X 200BKB	HCPK5	–	1
BB1-4-121	½ X 1	200BKB	HCPK4	–	1
BB1-5-122	½ X 2	2 X 200BKB	HCPK5	–	1

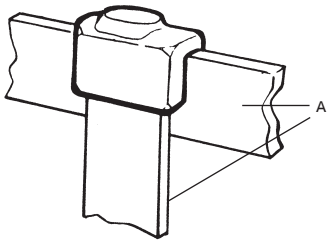


BB2 – For flat surfaces

Cat. no.	Bar size (in.) A	Welding powder size	Handle clamp type	Sleeve	Std. qty.
BB2-4-181	⅛ X 1	45BKB	HCPK4	–	1
BB2-4-18112	⅛ X 1½	65BKB	HCPK4	–	1
BB2-4-182	⅛ X 2	90BKB	HCPK4	–	1
BB2-4-183	⅛ X 3	200BKB	HCPK4	–	1
BB2-4-184	⅛ X 4	250BKB	HCPK4	–	1
BB2-4-3161	3⁄16 X 1	65BKB	HCPK4	–	1
BB2-4-3162	3⁄16 X 2	115BKB	HCPK4	–	1
BB2-4-141	¼ X 1	90BKB	HCPK4	–	1
BB2-4-14114	¼ X 1¼	115BKB	HCPK4	–	1
BB2-4-14112	¼ X 1½	150BKB	HCPK4	–	1
BB2-4-142	¼ X 2	200BKB	HCPK4	–	1
BB2-4-14212	¼ X 2½	250BKB	HCPK4	–	1
BB2-5-143	¼ X 3	2 X 200BKB	HCPK5	–	1
BB2-5-144	¼ X 4	2 X 250BKB	HCPK5	–	1
BB2-4-381	⅜ X 1	150BKB	HCPK5	–	1
BB2-4-38112	⅜ X 1½	250BKB	HCPK4	–	1
BB2-5-382	⅜ X 2	2 X 150BKB	HCPK5	–	1
BB2-5-383	⅜ X 3	2 X 250BKB	HCPK5	–	1
BB2-5-384	⅜ X 4	3 X 200BKB	HCPK5	–	1
BB2-4-121	½ X 1	200BKB	HCPK4	–	1
BB2-5-122	½ X 2	2 X 200BKB	HCPK5	–	1

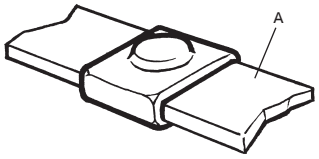
Exothermic welding system

BB3 and BB7 bar to bar



BB3 – For flat surfaces

Cat. no.	Bar size (in.) A	Welding powder size	Handle clamp type	Sleeve	Std. qty.
BB3-4-181	⅛ X 1	45BKB	HCPK4	–	1
BB3-4-18112	⅛ X 1½	65BKB	HCPK4	–	1
BB3-4-182	⅛ X 2	90BKB	HCPK4	–	1
BB3-4-183	⅛ X 3	200BKB	HCPK4	–	1
BB3-4-184	⅛ X 4	250BKB	HCPK4	–	1
BB3-4-3161	3⁄16 X 1	65BKB	HCPK4	–	1
BB3-4-3162	3⁄16 X 2	115BKB	HCPK4	–	1
BB3-4-141	¼ X 1	90BKB	HCPK4	–	1
BB3-4-14114	¼ X 1¼	115BKB	HCPK4	–	1
BB3-4-14112	¼ X 1½	150BKB	HCPK4	–	1
BB3-4-142	¼ X 2	200BKB	HCPK4	–	1
BB3-4-14212	¼ X 2½	250BKB	HCPK4	–	1
BB3-5-143	¼ X 3	2 X 200BKB	HCPK5	–	1
BB3-5-144	¼ X 4	2 X 250BKB	HCPK5	–	1
BB3-4-381	⅜ X 1	150BKB	HCPK5	–	1
BB3-4-38112	⅜ X 1½	250BKB	HCPK4	–	1
BB3-5-382	⅜ X 2	2 X 150BKB	HCPK5	–	1
BB3-5-383	⅜ X 3	2 X 250BKB	HCPK5	–	1
BB3-5-384	⅜ X 4	3 X 200BKB	HCPK5	–	1
BB3-4-121	½ X 1	200BKB	HCPK4	–	1
BB3-5-122	½ X 2	2 X 200BKB	HCPK5	–	1

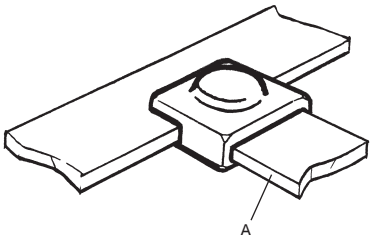


BB7 – For flat surfaces

Cat. no.	Bar size (in.) A	Welding powder size	Handle clamp type	Sleeve	Std. qty.
BB7-4-181	⅛ X 1	45BKB	HCPK4	–	1
BB7-4-18112	⅛ X 1½	65BKB	HCPK4	–	1
BB7-4-182	⅛ X 2	90BKB	HCPK4	–	1
BB7-4-183	⅛ X 3	200BKB	HCPK4	–	1
BB7-4-184	⅛ X 4	250BKB	HCPK4	–	1
BB7-4-3161	3⁄16 X 1	65BKB	HCPK4	–	1
BB7-4-3162	3⁄16 X 2	115BKB	HCPK4	–	1
BB7-4-141	¼ X 1	90BKB	HCPK4	–	1
BB7-4-14114	¼ X 1¼	115BKB	HCPK4	–	1
BB7-4-14112	¼ X 1½	150BKB	HCPK4	–	1
BB7-4-142	¼ X 2	200BKB	HCPK4	–	1
BB7-4-14212	¼ X 2½	250BKB	HCPK4	–	1
BB7-5-143	¼ X 3	2 X 200BKB	HCPK5	–	1
BB7-5-144	¼ X 4	2 X 250BKB	HCPK5	–	1
BB7-4-381	⅜ X 1	150BKB	HCPK5	–	1
BB7-4-38112	⅜ X 1½	250BKB	HCPK5	–	1
BB7-5-382	⅜ X 2	2 X 150BKB	HCPK5	–	1
BB7-5-383	⅜ X 3	2 X 250BKB	HCPK5	–	1
BB7-5-384	⅜ X 4	3 X 200BKB	HCPK5	–	1
BB7-4-121	½ X 1	200BKB	HCPK4	–	1
BB7-5-122	½ X 2	2 X 200BKB	HCPK5	–	1

Exothermic welding system

BB14 bar to bar

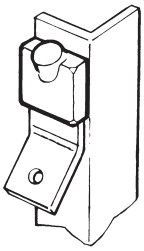


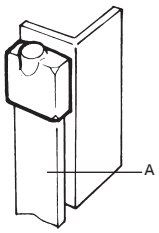
BB14 – For flat surfaces

Cat. no.	Bar size (in.) A	Welding powder size	Handle clamp type	Sleeve	Std. qty.
BB14-4-181	⅛ X 1	45BKB	HCPK4	–	1
BB14-4-18112	⅛ X 1½	65BKB	HCPK4	–	1
BB14-4-182	⅛ X 2	90BKB	HCPK4	–	1
BB14-4-183	⅛ X 3	200BKB	HCPK4	–	1
BB14-4-184	⅛ X4	250BKB	HCPK4	–	1
BB14-4-3161	3⁄16 X 1	65BKB	HCPK4	–	1
BB14-4-3162	3⁄16 X 2	115BKB	HCPK4	–	1
BB14-4-141	¼ X 1	90BKB	HCPK4	–	1
BB14-4-14114	¼ X 1¼	115BKB	HCPK4	–	1
BB14-4-14112	¼ X 1½	150BKB	HCPK4	–	1
BB14-4-142	¼ X 2	200BKB	HCPK4	–	1
BB14-4-14212	¼ X 2½	250BKB	HCPK4	–	1
BB14-5-143	¼ X 3	2 X 200BKB	HCPK5	–	1
BB14-5-144	¼ X 4	2 X 250BKB	HCPK5	–	1
BB14-4-381	⅜ X 1	150BKB	HCPK5	–	1
BB14-4-38112	⅜ X 1½	250BKB	HCPK4	–	1
BB14-5-382	⅜ X 2	2 X 150BKB	HCPK5	–	1
BB14-5-383	⅜ X 3	2 X 250BKB	HCPK5	–	1
BB14-5-384	⅜ X 4	3 X 200BKB	HCPK5	–	1
BB14-4-121	½ X 1	200BKB	HCPK4	–	1
BB14-5-122	½ X 2	2 X 200BKB	HCPK5	–	1

Exothermic welding system

BS1 and BS2 bar to steel surface



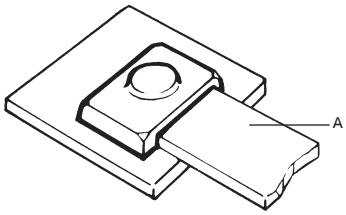


- Rectangular tape or bar

BS1 – For flat surfaces

Cat. no.	Bar size (in.) A	Welding powder size	Handle clamp type	Sleeve	Std. qty.
BS1-4-181	⅛ X 1	115BKB	HCPK4	4	1
BS1-4-18112	⅛ X 1½	150BKB	HCPK4	4	1
BS1-4-182	⅛ X 2	200BKB	HCPK4	4	1
BS1-4-3161	3⁄16 X 1	150BKB	HCPK4	4	1
BS1-4-316112	3⁄16 X 1½	200BKB	HCPK4	4	1
BS1-4-3162	3⁄16 X 2	250BKB	HCPK4	4	1
BS1-4-141	¼ X 1	150BKB	HCPK4	4	1
BS1-4-14114	¼ X 1¼	200BKB	HCPK4	4	1
BS1-4-14112	¼ X 1½	250BKB	HCPK4	4	1
BS1-5-142	¼ X 2	2 X 150BKB	HCPK4	4	1
BS1-4-381	⅜ X 1	200BKB	HCPK5	4	1
BS1-4-38112	⅜ X 1½	250BKB	HCPK4	4	1
BS1-5-382	⅜ X 2	2 X 200BKB	HCPK5	5	1
BS1-4-121	½ X 1	250BKB	HCPK4	4	1
BS1-5-12112	½ X 1½	2 X 200BKB	HCPK5	5	1
BS1-5-122	½ X 2	2 X 250BKB	HCPK5	5	1

Mold sealing compound (MSC) will be required if surface is uneven.



- Rectangular tape or bar

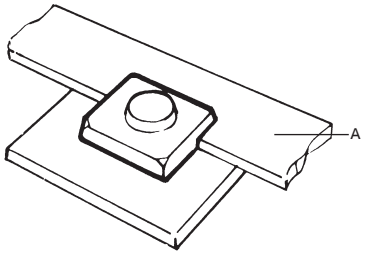
BS2 – For flat surfaces

Cat. no.	Bar size (in.) A	Welding powder size	Handle clamp type	Sleeve	Std. qty.
BS2-4-181	⅛ X 1	115BKB	HCPK4	–	1
BS2-4-18112	⅛ X 1½	150BKB	HCPK4	–	1
BS2-4-182	⅛ X 2	200BKB	HCPK4	–	1
BS2-4-3161	3⁄16 X 1	150BKB	HCPK4	–	1
BS2-4-316112	3⁄16 X 1½	200BKB	HCPK4	–	1
BS2-4-3162	3⁄16 X 2	250BKB	HCPK4	–	1
BS2-4-141	¼ X 1	150BKB	HCPK4	–	1
BS2-4-14114	¼ X 1¼	200BKB	HCPK4	–	1
BS2-4-14112	¼ X 1½	250BKB	HCPK4	–	1
BS2-5-142	¼ X 2	2 X 150BKB	HCPK4	–	1
BS2-4-381	⅜ X 1	200BKB	HCPK5	–	1
BS2-4-38112	⅜ X 1½	250BKB	HCPK4	–	1
BS2-5-382	⅜ X 2	2 X 200BKB	HCPK5	–	1
BS2-4-121	½ X 1	250BKB	HCPK4	–	1
BS2-5-12112	½ X 1½	2 X 200BKB	HCPK5	–	1
BS2-5-122	½ X 2	2 X 250BKB	HCPK5	–	1

Mold sealing compound (MSC) will be required if surface is uneven.

Exothermic welding system

BS3 and BS4 bar to steel surface

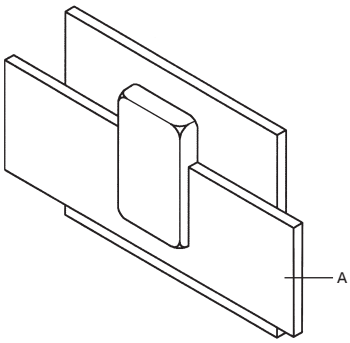


- Rectangular tape or bar

BS3 – For flat surfaces

Cat. no.	Bar size (in.) A	Welding powder size	Handle clamp type	Sleeve	Std. qty.
BS3-4-181	⅛ X 1	115BKB	HCPK4	–	1
BS3-4-18112	⅛ X 1½ and wider	150BKB	HCPK4	–	1
BS3-4-3161	3⁄16 X 1	150BKB	HCPK4	–	1
BS3-4-316112	3⁄16 X 1½ and wider	200BKB	HCPK4	–	1
BS3-4-141	¼ X 1	150BKB	HCPK4	–	1
BS3-4-14114	¼ X 1-¼	200BKB	HCPK4	–	1
BS3-4-14112	¼ X 1½ and wider	250BKB	HCPK4	–	1
BS3-4-381	⅜ X 1	200BKB	HCPK5		1
BS3-4-38112	⅜ X 1½ and wider	250BKB	HCPK4	–	1
BS3-4-121	½ X 1	250BKB	HCPK4	–	1
BS3-5-12112	½ X 1½ and wider	2 X 200BKB	HCPK5	–	1

Mold sealing compound (MSC) will be required if surface is uneven.



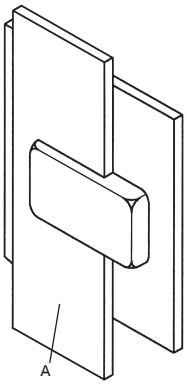
BS4 – For flat surfaces

Cat. no.	Bar size (in.) A	Welding powder size	Handle clamp type	Sleeve	Std. qty.
BS4-4-181	⅛ X 1	115BKB	HCPK4	–	1
BS4-4-18112	⅛ X 1½	150BKB	HCPK4	–	1
BS4-4-182	⅛ X 2	200BKB	HCPK4	–	1
BS4-4-3161	3⁄16 X 1	150BKB	HCPK4	–	1
BS4-4-316112	3⁄16 X 1½	200BKB	HCPK4	–	1
BS4-4-3162	3⁄16 X 2	250BKB	HCPK4	–	1
BS4-4-141	¼ X 1	150BKB	HCPK4	–	1
BS4-4-14114	¼ X 1¼	200BKB	HCPK4	–	1
BS4-4-14112	¼ X 1½	250BKB	HCPK4	–	1
BS4-5-142	¼ X 2	2 X 150BKB	HCPK4	–	1
BS4-4-381	⅜ X 1	200BKB	HCPK5	–	1
BS4-4-38112	⅜ X 1½	250BKB	HCPK4	–	1
BS4-5-382	⅜ X 2	2 X 200BKB	HCPK5	–	1
BS4-4-121	½ X 1	250BKB	HCPK4	–	1
BS4-5-12112	½ X 1½	2 X 200BKB	HCPK5	–	1
BS4-5-122	½ X 2	2 X 250BKB	HCPK5	–	1

Mold sealing compound (MSC) will be required if surface is uneven.

Exothermic welding system

BS5 bar to steel surface



BS5 – For flat surfaces

Cat. no.	Bar size (in.) A	Welding powder size	Handle clamp type	Sleeve	Std. qty.
BS5-4-181	⅛ X 1	115BKB	HCPK4	–	1
BS5-4-18112	⅛ X 1½	150BKB	HCPK4	–	1
BS5-4-182	⅛ X 2 and wider	200BKB	HCPK4	–	1
BS5-4-3161	3⁄16 X 1	150BKB	HCPK4	–	1
BS5-4-316112	3⁄16 X 1½	200BKB	HCPK4	–	1
BS5-4-3162	3⁄16 X 2 and wider	250BKB	HCPK4	–	1
BS5-4-141	¼ X 1	150BKB	HCPK4	–	1
BS5-4-14114	¼ X 1¼	200BKB	HCPK4	–	1
BS5-4-14112	¼ X 1½	250BKB	HCPK4	–	1
BS5-5-142	¼ X 2 and wider	2 X 150BKB	HCPK5	–	1
BS5-4-381	⅜ X 1	200BKB	HCPK5	–	1
BS5-4-38112	⅜ X 1½	250BKB	HCPK4	–	1
BS5-5-382	⅜ X 2 and wider	2 X 200BKB	HCPK5	–	1
BS5-4-121	½ X 1	250BKB	HCPK4	–	1
BS5-5-12112	½ X 1½	2 X 200BKB	HCPK5	–	1
BS5-5-122	½ X 2 and wider	2 X 250BKB	HCPK5	–	1

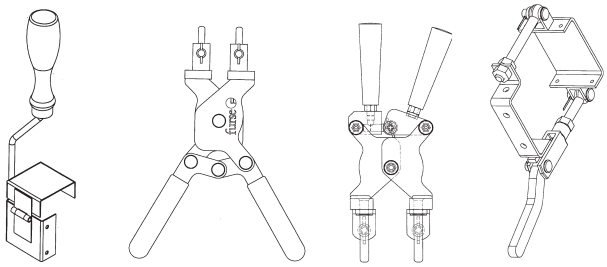
Mold sealing compound (MSC) will be required if surface is uneven.

Exothermic welding system

Handle clamps, tools and accessories

Handle clamps

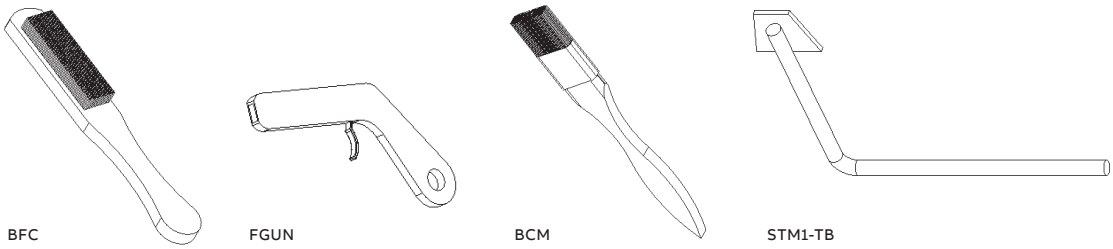
Cat. no.	Description	Applications	Std. qty.
HCPK1	Price key 1 handle	For use on price key 1 molds	1
HCPK2	Price key 2 handle	For use on price key 2 molds	1
HCPK3	Price key 3 handle clamp	For use on price key 3 molds	1
HCPK3A	Price key 3A handle clamp	Type 3A molds (connections to vertical rebars)	1
HCPK3B	Price key 3B handle clamp	Type 3B molds (connections to horizontal rebars)	1
HCPK3BMOD	Price key 3B modified clamp	Type 3B molds (cross connections to horizontal rebars)	1
HCPK4	Price key 4 handle clamp	For use on price key 4 molds	1
HCPK5	Price key 5 handle clamp	For use on price key 5 molds	1
HCPK7	Price key 7 handle clamp	For use on price key 7 molds	1
HCPK8	Price key 8 handle clamp	For use on price key 8 molds	1
FRAME1	Price key 9 frame	For use with HCPK4 on price key 9 molds	1
FRAME2	Price key 10 frame	For use with HCPK5 on price key 10 molds	1



HCPK2 HCPK3 HCPK4 FRAME 1

Tools and accessories

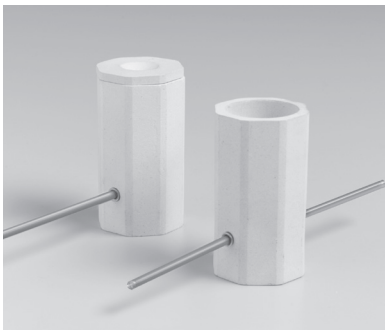
Cat. no.	Description	Applications	Std. qty.
WWB1	Cable cleaning brush	Cleaning of stranded and other circular section conductors	6
WRB1	Replacement elements (pair)	–	3
BFC	Card cloth brush	Cleaning of conductors and surfaces	10
FGUN	Flint ignitor gun	Starting powder ignition	10
BCM	Mold cleaning brush	Soft brush for mold cleaning	10
STM1-TB	Mold scraper tool	Break up and removal of slag in mold crucible	10
MSC	Mold sealing compound	Mold sealing on uneven surfaces, and general mold sealing	5
PACK-A	Packing	Mold sealing on rebar surfaces	50
SLEEVE#6	Sleeve for #6 wire	Prevents burning of small section wire	100
SLEEVE#6S	Sleeve for #6s wire	Prevents burning of small section wire	100
SLEEVE#8	Sleeve for #8 wire	Prevents burning of small section wire	100
SLEEVE#8S	Sleeve for #8s wire	Prevents burning of small section wire	100
SHIM	Copper shim.	For sealing around undersize conductors	100



BFC FGUN BCM STM1-TB

Exothermic welding system

Sure Shot™ welding mold



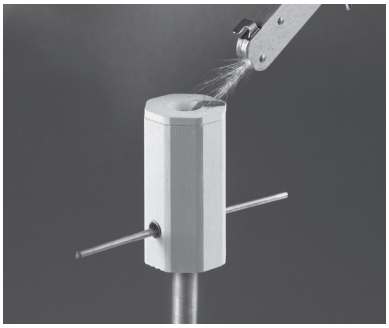


ABB introduces a new approach to the perfect connection, Sure Shot, an extension of the Furseweld line of exothermic welding products.

Sure Shot molds come completely packaged with everything necessary for a connection. They are fast and easy to use. The contractor simply positions the mold, adds the weld powder and starting powder, and ignites it with a flint gun.

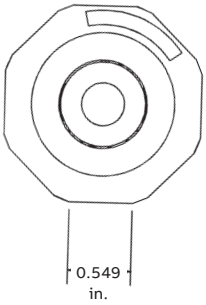
Sure Shot molds are disposable, so there's no maintenance involved. And, it's not necessary to remove the mold in underground installations because Sure Shot molds are made from an "earth-friendly" ceramic.

The hexagonal Sure Shot design is easy to grasp and hold without removing safety gloves, and it won't roll away if it's laid down while the installer prepares the connection.

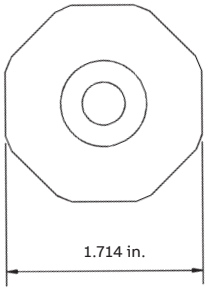
Features and benefits:

- Fast and easy to use
- Packaged with everything necessary for a connection
- Maintenance-free disposable molds
- Made of biodegradable ceramic
- Ergonomic hexagonal design

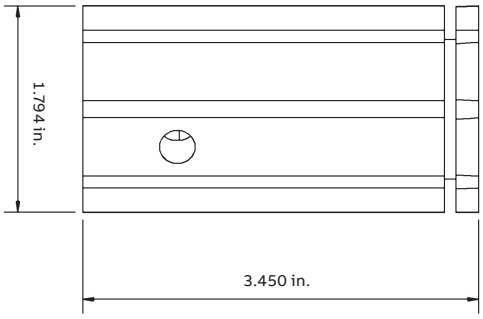
Diagrams



Cover



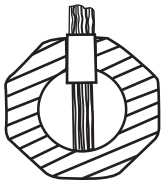
Disk



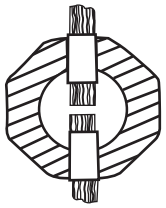
Welding mold

Exothermic welding system

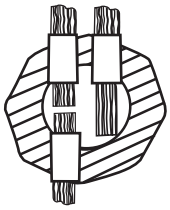
Sure Shot welding mold



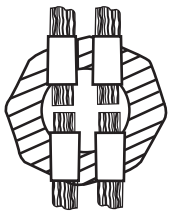
SCR1



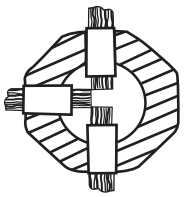
SCR2



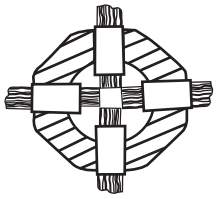
SCR17



SCR24



SCR25



SCR27

Wire positioning

Product specifications

Cat. no.	Ground rod size (in.)	Conductor size (AWG) Solid	Conductor size (AWG) Stranded
Furseweld type SCR1			
SCR1-58-2010	⅝	2/0, 1/0	1/0, #1
SCR1-58-0020	⅝	–	2/0
SCR1-34-6808	¾	#6, 8	#8
SCR1-34-3446	¾	#3, 4	#4, 6
SCR1-34-1223	¾	#1, 2	#2, 3
SCR1-34-2010	¾	2/0, 1/0	1/0, #1
SCR1-34-0020	¾	–	2/0
SCR1-34-0040	¾	–	4/0
Furseweld type SCR2			
SCR2-58-3446	⅝	#3, 4	4, 6
SCR2-58-1223	⅝	#1, 2	#2, 3
SCR2-58-0020	⅝	–	2/0
SCR2-34-3446	¾	#3, 4	#4, 6
SCR2-34-1223	¾	#1, 2	#2, 3
SCR2-34-0020	¾	–	2/0
SCR2-34-0040	¾	–	4/0
Furseweld type SCR17			
SCR17-58-1223	⅝	#1, 2	#2, 3
SCR17-34-6808	¾	#6, 8	#8
SCR17-34-1223	¾	#1, 2	#2, 3
Furseweld type SCR24			
SCR24-58-6808	⅝	#6, 8	#8
SCR24-58-3446	⅝	#3, 4	#4, 6
SCR24-58-1223	⅝	#1, 2	#2, 3
SCR24-34-6808	¾	#6, 8	#8
SCR24-34-3446	¾	#3, 4	#4, 6
SCR24-34-1223	¾	#1, 2	#2, 3
Furseweld type SCR25			
SCR25-58-6808	⅝	#6, 8	#8
SCR25-58-3446	⅝	#3, 4	#4, 6
SCR25-34-6808	¾	#6, 8	#8
SCR25-34-3446	¾	#3, 4	#4, 6
SCR25-34-1223	¾	#1, 2	#2, 3
Furseweld type SCR27			
SCR27-58-6808	⅝	#6, 8	#8
SCR27-58-3446	⅝	#3, 4	#4, 6
SCR27-34-6808	¾	#6, 8	#8
SCR27-34-3446	¾	#3, 4	#4, 6
SCR27-34-1223	¾	#1, 2	#2, 3

* The weight per 100 is 20 lb and the standard carton/outer pack is 6 for all catalogue numbers.

Exothermic welding system

Cross reference

Cadweld cat. no.	Thermoweld cat. no.	Furseweld cat. no.
BAC-JE	M-1135	BB1-4-121
BAC-EE	M-1122	BB1-4-141
BAC-EG	M-1124	BB1-4-14112
BAC-EF	M-1123	BB1-4-14114
BAC-EH	M-1125	BB1-4-142
BAC-EJ	M-6346	BB1-4-14212
BAC-CE	M-1118	BB1-4-181
BAC-CG	M-2557	BB1-4-18112
BAC-CH	M-1119	BB1-4-182
BAC-CK	M-6298	BB1-4-183
BAD-CM	M-5315	BB1-4-184
BAC-DE	M-1120	BB1-4-3161
BAC-DH	M-1121	BB1-4-3162
BAC-GE	M-1130	BB1-4-381
BAC-GG	M-1131	BB1-4-38112
BAD-JH	M-1136	BB1-5-122
BAD-EK	M-1126	BB1-5-143
BAD-EM	M-1127	BB1-5-144
BAD-GH	M-1132	BB1-5-382
BAD-GK	M-1133	BB1-5-38
BAD-GM	M-1134	BB1-5-384
EPC-JE	M-1247	BB2-4-121
EPC-EE	M-1234	BB2-4-141
EPC-EG	M-1236	BB2-4-14112
EPC-EF	M-1235	BB2-4-14114
EPC-EH	M-1237	BB2-4-142
EPC-EJ	M-6352	BB2-4-14212
EPC-CE	M-1230	BB2-4-181
EPC-CG	M-6347	BB2-4-18112
EPC-CH	M-1231	BB2-4-182
EPC-CK	M-6348	BB2-4-183
EPD-CM	M-6351	BB2-4-184
EPC-DE	M-1232	BB2-4-3161
EPC-DH	M-1233	BB2-4-3162
EPC-GE	M-1242	BB2-4-381
EPC-GG	M-1243	BB2-4-38112
EPD-JH	M-1248	BB2-5-122
EPD-EK	M-1238	BB2-5-143
EPD-EM	M-1239	BB2-5-144
EPD-GH	M-1244	BB2-5-382
EPD-GK	M-1245	BB2-5-383
EPD-GM	M-1246	BB2-5-384
BQC-EEEE	M-1102	BB3-4-141
BQC-EGEG	M-1104	BB3-4-14112
BQC-EFEF	M-1103	BB3-4-14114
BQC-CECE	M-1098	BB3-4-181
BQC-CHCH	M-1099	BB3-4-182
BQC-DEDE	M-1100	BB3-4-3161
BQC-DHDH	M-1101	BB3-4-3162
BQC-GEGE	M-1108	BB3-4-381
BQD-JEJE	M-1113	BB3-5-121

Cadweld cat. no.	Thermoweld cat. no.	Furseweld cat. no.
BQD-JHJH	M-1114	BB3-5-122
BQD-EHEH	M-1105	BB3-5-142
BQD-GGGG	M-1109	BB3-5-38112
BQD-GHGH	M-1110	BB3-5-382
BQF-EKEK	M-1106	BB3-6-143
BQF-GKGK	M-1111	BB3-6-383
BWC-JE	M-1051	BS1-4-121
BWC-EE	M-1045	BS1-4-141
BWC-EG	M-1047	BS1-4-14112
BWC-EF	M-1046	BS1-4-14114
BWC-CE	M-1043	BS1-4-181
BWC-CG	M-6354	BS1-4-18112
BWC-CH	M-1044	BS1-4-182
BWC-DE	M-6056	BS1-4-3161
BWC-DG	M-6355	BS1-4-316112
BWC-DH	M-6356	BS1-4-3162
BWC-GE	M-1049	BS1-4-381
BWC-GG	M-6357	BS1-4-38112
BWD-JG	M-6358	BS1-5-12112
BWD-JH	M-1052	BS1-5-122
BWD-EH	M-1048	BS1-5-142
BWD-GH	M-1050	BS1-5-382
CGC-JE	M-1084	BS2-4-121
CGC-EE	M-1077	BS2-4-141
CGC-EG	M-1079	BS2-4-14112
CGC-EF	M-1078	BS2-4-14114
CGC-CE	M-1072	BS2-4-181
CGC-CG	M-1073	BS2-4-18112
CGC-CH	M-1074	BS2-4-182
CGC-DE	M-1075	BS2-4-3161
CGC-DG	M-6359	BS2-4-316112
CGC-DH	M-1076	BS2-4-3162
CGC-GE	M-1081	BS2-4-381
CGC-GG	M-1082	BS2-4-38112
CGD-JG	M-1085	BS2-5-12112
CGD-JH	M-1086	BS2-5-122
CGD-EH	M-1080	BS2-5-142
CGD-GH	M-1083	BS2-5-382
CHC-JE	M-1095	BS3-4-121
CHC-EE	M-1090	BS3-4-141
CHC-EG	M-1092	BS3-4-14112
CHC-EF	M-1091	BS3-4-14114
CHC-CE	M-1088	BS3-4-181
CHC-CG	M-1089	BS3-4-18112
CHC-DE	M-6353	BS3-4-3161
CHC-DG	M-7163	BS3-4-316112
CHC-GE	M-1093	BS3-4-381
CHC-GG	M-1094	BS3-4-38112
CHD-JG	M-1096	BS3-5-12112
CCC-JE	M-1060	BS4-4-121
CCC-EE	M-1056	BS4-4-141

Cadweld cat. no.	Thermoweld cat. no.	Furseweld cat. no.
CCC-EG	M-6369	BS4-4-14112
CCC-EF	M-5566	BS4-4-14114
CCC-CE	M-1054	BS4-4-181
CCC-CG	M-6360	BS4-4-18112
CCC-CH	M-1055	BS4-4-182
CCC-DE	M-6361	BS4-4-3161
CCC-DG	M-6362	BS4-4-316112
CCC-DH	M-6367	BS4-4-3162
CCC-GE	M-1058	BS4-4-381
CCC-GG	M-6370	BS4-4-38112
CCD-JG	M-6372	BS4-5-12112
CCD-JH	M-1061	BS4-5-122
CCD-EH	M-1057	BS4-5-142
CCD-GH	M-1059	BS4-5-382
CFC-JE	M-1069	BS5-4-121
CFC-EE	M-1065	BS5-4-141
CFC-EG	M-6379	BS5-4-14112
CFC-EF	M-6377	BS5-4-14114
CFC-CE	M-1063	BS5-4-181
CFC-CF	M-6373	BS5-4-18112
CFC-CH	M-1064	BS5-4-182
CFC-DE	M-6374	BS5-4-3161
CFC-DG	M-6375	BS5-4-316112
CFC-DH	M-6376	BS5-4-3162
CFC-GE	M-1067	BS5-4-381
CFC-GG	M-6382	BS5-4-38112
CFD-JG	M-6383	BS5-5-12112
CFD-JH	M-1070	BS5-5-122
CFD-EH	M-1066	BS5-5-142
CFD-GH	M-1068	BS5-5-382
LAC-1YCE	M-977	CB1-4-#1181
LAC-1VCE	M-975	CB1-4-#2181
LAC-1TCE	–	CB1-4-#2S181
LAC-1LCE	M-971	CB1-4-#4181
LAC-2CEE	M-979	CB1-4-1/0141
LAC-2CCE	M-978	CB1-4-1/0181
LAC-2CDE	M-6075	CB1-4-1/03161
LAC-2GEE	M-981	CB1-4-2/0141
LAC-2GCE	M-980	CB1-4-2/0181
LAC-2GDE	M-6579	CB1-4-2/03161
LAC-2VEE	M-988	CB1-4-250K141
LAC-2VEG	M-990	CB1-4-250K14112
LAC-2VEH	M-8784	CB1-4-250K142
LAC-2VEK	M-1916	CB1-4-250K143
LAC-2VDE	M-8277	CB1-4-250K3161
LAC-2LEE	M-983	CB1-4-3/0141
LAC-2LCE	M-6284	CB1-4-3/0181
LAC-2LDE	M-982	CB1-4-3/03161
LAC-3AEE	M-991	CB1-4-300K141
LAC-3AEG	M-993	CB1-4-300K14112
LAC-3AEH	M-6288	CB1-4-300K142

Exothermic welding system

Cross reference

Cadweld cat. no.	Thermoweld cat. no.	Furseweld cat. no.
LAC-3AEK	M-1917	CB1-4-300K143
LAC-3DEE	M-994	CB1-4-350K141
LAC-3DEG	M-996	CB1-4-350K14112
LAC-3DEH	M-6289	CB1-4-350K142
LAC-3DEK	M-1918	CB1-4-350K143
LAC-2QEE	M-985	CB1-4-4/0141
LAC-2QEG	M-987	CB1-4-4/014112
LAC-2QEH	M-5657	CB1-4-4/0142
LAC-2QEK	M-1915	CB1-4-4/0143
LAC-2QDE	M-984	CB1-4-4/03161
LAC-3QEG	M-1001	CB1-4-500K14112
LAC-3QEH	M-1002	CB1-4-500K142
LAC-3QEK	M-1920	CB1-4-500K143
LAC-3QGG	M-1004	CB1-4-500K38112
LAD-4YJH	M-1011	CB1-5-1000K122
LAD-4YJK	M-6295	CB1-5-1000K123
LAD-4YEK	M-6292	CB1-5-1000K143
LAD-4YGH	M-1009	CB1-5-1000K382
LAD-4YGK	M-1922	CB1-5-1000K383
LAD-4LEH	M-1006	CB1-5-750K142
LAD-4LEK	M-1921	CB1-5-750K143
LAD-4LGG	M-1007	CB1-5-750K38112
LAD-4LGH	M-1008	CB1-5-750K382
LAD-4LGK	M-6291	CB1-5-750K383
LQJ-JH1Y	–	CB29-10-#1122
LQJ-EH1Y	–	CB29-10-#1142
LQJ-GH1Y	–	CB29-10-#1382
LQJ-JH1V	–	CB29-10-#2122
LQJ-JH1T	–	CB29-10-#2S122
LQJ-JH2C	–	CB29-10-1/0122
LQJ-EH2C	–	CB29-10-1/0142
LQJ-GH2C	–	CB29-10-1/0382
LQJ-JH2G	–	CB29-10-2/0122
LQJ-EH2G	–	CB29-10-2/0142
LQJ-GH2G	–	CB29-10-2/0382
LQJ-JH2V	–	CB29-10-250K122
LQJ-EH2V	–	CB29-10-250K142
LQJ-GH2V	–	CB29-10-250K382
LQJ-JH2Q	–	CB29-10-4/0122
LQJ-EH2Q	–	CB29-10-4/0142
LQJ-GH2Q	–	CB29-10-4/0382
LQJ-JH3Q	–	CB29-10-500K122
LQJ-EH3Q	–	CB29-10-500K142
LQJ-GH3Q	–	CB29-10-500K382
LQJ-JH4L	–	CB29-10-750K122
LQJ-EH4L	–	CB29-10-750K142
LQJ-GH4L	–	CB29-10-750K382
LQE-EH1V	–	CB29-9-#2142
LQE-GH1V	–	CB29-9-#2382
LQE-EH1T	–	CB29-9-#2S142
LQE-GH1T	–	CB29-9-#2S382

Cadweld cat. no.	Thermoweld cat. no.	Furseweld cat. no.
LJC-JG1V	–	CB4-4-#212112
LJC-EG1V	–	CB4-4-#214112
LJC-GG1V	–	CB4-4-#238112
LJC-JG1T	–	CB4-4-#2S12112
LJC-EG1T	–	CB4-4-#2S14112
LJC-GG1T	–	CB4-4-#2S38112
LJC-JG2C	M-1671	CB4-4-1/012112
LJC-EG2C	M-1651	CB4-4-1/014112
LJC-GG2C	M-1660	CB4-4-1/038112
LJC-JG2G	M-1672	CB4-4-2/012112
LJC-EG2G	M-1652	CB4-4-2/014112
LJC-GG2G	M-1661	CB4-4-2/038112
LJC-JG2V	M-1675	CB4-4-250K12112
LJC-EG2V	M-1655	CB4-4-250K14112
LJC-GG2V	M-1664	CB4-4-250K38112
LJC-JG2L	M-1673	CB4-4-3/012112
LJC-EG2L	M-1653	CB4-4-3/014112
LJC-GG2L	M-1662	CB4-4-3/038112
LJC-JG3A	M-1676	CB4-4-300K12112
LJC-EG3A	M-1656	CB4-4-300K14112
LJC-GG3A	M-1665	CB4-4-300K38112
LJC-JG3D	M-1677	CB4-4-350K12112
LJC-EG3D	M-1657	CB4-4-350K14112
LJC-GG3D	M-1666	CB4-4-350K38112
LJC-JG2Q	M-1674	CB4-4-4/012112
LJC-EG2Q	M-1654	CB4-4-4/014112
LJC-GG2Q	M-1663	CB4-4-4/038112
LJC-EG3Q	M-1659	CB4-4-500K14112
LJC-GG3Q	M-1668	CB4-4-500K38112
LJD-JG4Y	M-1681	CB4-5-1000K12112
LJD-GG4Y	M-1670	CB4-5-1000K38112
LJD-JG3Q	M-1679	CB4-5-500K12112
LJD-JG4L	M-1680	CB4-5-750K12112
LJD-GG4L	M-1669	CB4-5-750K38112
XBC-1Y1Y	M-2691	CC11-7-#1#1
XBC-1Y1V	M-2692	CC11-7-#1#2
XBC-1Y1L	M-2693	CC11-7-#1#4
XBC-1V1V	M-2689	CC11-7-#2#2
XBC-1V1L	M-2690	CC11-7-#2#4
XBC-1T1T	M-2689-S	CC11-7-#2S#2S
XBC-1L1L	M-2687	CC11-7-#4#4
XBP-1H1H	M-5432	CC11-7-#6#6
XBP-1G1G	M-5432-S	CC11-7-#6S#6S
XBM-2C1Y	M-2695	CC11-7-1/0#1
XBM-2C1V	M-2696	CC11-7-1/0#2
XBM-2C1L	M-2697	CC11-7-1/0#4
XBM-2C2C	M-2694	CC11-7-1/01/0
XBM-2G1Y	M-2700	CC11-7-2/0#1
XBM-2G1V	M-2701	CC11-7-2/0#2
XBM-2G2C	M-2699	CC11-7-2/01/0
XBM-2G2G	M-2698	CC11-7-2/02/0

Cadweld cat. no.	Thermoweld cat. no.	Furseweld cat. no.
XBM-2V1Y	M-2718	CC11-7-250K#1
XBM-2V1V	M-2719	CC11-7-250K#2
XBM-2V2C	M-2717	CC11-7-250K1/0
XBM-2V2G	M-2716	CC11-7-250K2/0
XBM-2V2V	M-2713	CC11-7-250K250K
XBM-2V2L	M-2715	CC11-7-250K3/0
XBM-2V2Q	M-2714	CC11-7-250K4/0
XBM-2L1Y	M-2705	CC11-7-3/0#1
XBM-2L1V	M-2706	CC11-7-3/0#2
XBM-2L2C	M-2704	CC11-7-3/01/0
XBM-2L2G	M-2703	CC11-7-3/02/0
XBM-2L2L	M-2702	CC11-7-3/03/0
XBM-3A1Y	M-2726	CC11-7-300K#1
XBM-3A1V	M-2727	CC11-7-300K#2
XBM-3A2C	M-2725	CC11-7-300K1/0
XBM-3A2G	M-2724	CC11-7-300K2/0
XBM-3A2L	M-2723	CC11-7-300K3/0
XBM-3A2Q	M-2722	CC11-7-300K4/0
XBM-3D1Y	M-2735	CC11-7-350K#1
XBM-3D1V	M-2736	CC11-7-350K#2
XBM-3D2C	M-2734	CC11-7-350K1/0
XBM-3D2G	M-2733	CC11-7-350K2/0
XBM-2Q1Y	M-2711	CC11-7-4/0#1
XBM-2Q1V	M-2712	CC11-7-4/0#2
XBM-2Q2C	M-2710	CC11-7-4/01/0
XBM-2Q2G	M-2709	CC11-7-4/02/0
XBM-2Q2L	M-2708	CC11-7-4/03/0
XBM-2Q2Q	M-2707	CC11-7-4/04/0
XBM-3Q2C	M-2755	CC11-7-500K1/0
XBV-3A2V	M-2721	CC11-8-300K250K
XBV-3A3A	M-2720	CC11-8-300K300K
XBV-3D2V	M-2730	CC11-8-350K250K
XBV-3D2L	M-2732	CC11-8-350K3/0
XBV-3D3A	M-2729	CC11-8-350K300K
XBV-3D3D	M-2728	CC11-8-350K350K
XBV-3D2Q	M-2731	CC11-8-350K4/0
XBV-3Q2G	M-2754	CC11-8-500K2/0
XBV-3Q2V	M-2751	CC11-8-500K250K
XBV-3Q2L	M-2753	CC11-8-500K3/0
XBV-3Q3A	M-2750	CC11-8-500K300K
XBV-3Q3D	M-2749	CC11-8-500K350K
XBV-3Q2Q	M-2752	CC11-8-500K4/0
XBV-3Q3Q	M-2747	CC11-8-500K500K
SST-1Y	M-5626	CC1-3-#1
SST-1X	M-5626-S	CC1-3-#1S
SST-1V	M-5625	CC1-3-#2
SST-1T	M-5625-S	CC1-3-#2S
SST-1Q	M-5624	CC1-3-#3
–	–	CC1-4-#2
SSC-2C	M-205	CC1-4-1/0
SSC-2B	M-205-S	CC1-4-1/0S

Exothermic welding system

Cross reference

Cadweld cat. no.	Thermoweld cat. no.	Furseweld cat. no.
SSC-2G	M-206	CC1-4-2/0
SSC-2V	M-209	CC1-4-250K
SSC-2L	M-207	CC1-4-3/0
SSC-3A	M-210	CC1-4-300K
SSC-3D	M-211	CC1-4-350K
SSC-2Q	M-208	CC1-4-4/0
SSC-2P	M-208-S	CC1-4-4/0S
SSC-3Q	M-213	CC1-4-500K
SSD-4Y	M-215	CC1-5-1000K
SSD-4L	M-214	CC1-5-750K
TAC-1Y1Y	M-225	CC2-4-#1#1
TAC-1Y1V	M-226	CC2-4-#1#2
TAC-1Y1T	M-5879	CC2-4-#1#2S
TAC-1Y1L	M-227	CC2-4-#1#4
TAC-1V1V	M-223	CC2-4-#2#2
TAC-1V1T	M-5869	CC2-4-#2#2S
TAC-1T1L	M-224	CC2-4-#2#4
TAC-1V1L	M-5859	CC2-4-#2#4
TAC-1T1V	M-5856	CC2-4-#2S#2
TAC-1T1T	M-223-S	CC2-4-#2S#2S
TAC-1L1L	M-221	CC2-4-#4#4
TAC-2C1Y	M-229	CC2-4-1/0#1
TAC-2C1V	M-230	CC2-4-1/0#2
TAC-2C1T	M-5311	CC2-4-1/0#2S
TAC-2C1L	M-231	CC2-4-1/0#4
TAC-2C2C	M-228	CC2-4-1/01/0
TAC-4Y2C	M-308	CC2-4-1000K1/0
TAC-4Y2G	M-307	CC2-4-1000K2/0
TAC-4Y2V	M-305	CC2-4-1000K250K
TAC-4Y3A	M-304	CC2-4-1000K300K
TAC-4Y3D	M-303	CC2-4-1000K350K
TAC-4Y2Q	M-306	CC2-4-1000K4/0
TAC-2G1Y	M-234	CC2-4-2/0#1
TAC-2G1V	M-235	CC2-4-2/0#2
TAC-2G1T	M-8093	CC2-4-2/0#2S
TAC-2G1L	M-5475	CC2-4-2/0#4
TAC-2G2C	M-233	CC2-4-2/01/0
TAC-2G2G	M-232	CC2-4-2/02/0
TAC-2V1Y	M-252	CC2-4-250K#1
TAC-2V1V	M-253	CC2-4-250K#2
TAC-2V1T	M-5889	CC2-4-250K#2S
TAC-2V1L	M-5425	CC2-4-250K#4
TAC-2V2C	M-251	CC2-4-250K1/0
TAC-2V2G	M-250	CC2-4-250K2/0
TAC-2V2V	M-247	CC2-4-250K250K
TAC-2V2L	M-249	CC2-4-250K3/0
TAC-2V2Q	M-248	CC2-4-250K4/0
TAC-2L1Y	M-239	CC2-4-3/0#1
TAC-2L1V	M-240	CC2-4-3/0#2
TAC-2L1T	M-5884	CC2-4-3/0#2S
TAC-2L1L	M-5574	CC2-4-3/0#4

Cadweld cat. no.	Thermoweld cat. no.	Furseweld cat. no.
TAC-2L2C	M-238	CC2-4-3/01/0
TAC-2L2G	M-237	CC2-4-3/02/0
TAC-2L2L	M-236	CC2-4-3/03/0
TAC-3A1Y	M-260	CC2-4-300K#1
TAC-3A1V	M-261	CC2-4-300K#2
TAC-3A1T	M-5903	CC2-4-300K#2S
TAC-3A1L	M-6397	CC2-4-300K#4
TAC-3A2C	M-259	CC2-4-300K1/0
TAC-3A2G	M-258	CC2-4-300K2/0
TAC-3A2V	M-255	CC2-4-300K250K
TAC-3A2L	M-257	CC2-4-300K3/0
TAC-3A3A	M-254	CC2-4-300K300K
TAC-3A2Q	M-256	CC2-4-300K4/0
TAC-3D1Y	M-269	CC2-4-350K#1
TAC-3D1V	M-270	CC2-4-350K#2
TAC-3D1L	M-6398	CC2-4-350K#4
TAC-3D2C	M-268	CC2-4-350K1/0
TAC-3D2G	M-267	CC2-4-350K2/0
TAC-3D2V	M-264	CC2-4-350K250K
TAC-3D2L	M-266	CC2-4-350K3/0
TAC-3D3A	M-263	CC2-4-350K300K
TAC-3D3D	M-262	CC2-4-350K350K
TAC-3D2Q	M-265	CC2-4-350K4/0
TAC-2Q1Y	M-245	CC2-4-4/0#1
TAC-2Q1V	M-246	CC2-4-4/0#2
TAC-2Q1T	M-5348	CC2-4-4/0#2S
TAC-2Q1L	M-5021	CC2-4-4/0#4
TAC-2Q2C	M-244	CC2-4-4/01/0
TAC-2Q2G	M-243	CC2-4-4/02/0
TAC-2Q2L	M-242	CC2-4-4/03/0
TAC-2Q2Q	M-241	CC2-4-4/04/0
TAC-3Q1Y	M-288	CC2-4-500K#1
TAC-3Q1V	M-289	CC2-4-500K#2
TAC-3Q1L	M-8113	CC2-4-500K#4
TAC-3Q2C	M-287	CC2-4-500K1/0
TAC-3Q2G	M-286	CC2-4-500K2/0
TAC-3Q2V	M-284	CC2-4-500K250K
TAC-3Q3A	M-283	CC2-4-500K300K
TAC-3Q3D	M-282	CC2-4-500K350K
TAC-3Q2Q	M-285	CC2-4-500K4/0
TAC-3Q3Q	M-280	CC2-4-500K500K
TAC-4L2C	M-298	CC2-4-750K1/0
TAC-4L2G	M-297	CC2-4-750K2/0
TAC-4L2V	M-295	CC2-4-750K250K
TAC-4L3A	M-294	CC2-4-750K300K
TAC-4L3D	M-293	CC2-4-750K350K
TAC-4L2Q	M-296	CC2-4-750K4/0
TAD-4Y4Y	M-299	CC2-5-1000K1000K
TAD-4Y3Q	M-301	CC2-5-1000K500K
TAD-4Y4L	M-300	CC2-5-1000K750K
TAD-4L3Q	M-291	CC2-5-750K500K

Cadweld cat. no.	Thermoweld cat. no.	Furseweld cat. no.
TAD-4L4L	M-290	CC2-5-750K750K
–	–	CC2HD-4-4/04/0
XAC-1Y1Y	M-427	CC4-4-#1#1
XAC-1Y1V	M-428	CC4-4-#1#2
XAC-1Y1L	M-429	CC4-4-#1#4
XAC-1V1V	–	CC4-4-#2#2
XAC-1V1L	–	CC4-4-#2#4
XAC-1T1T	–	CC4-4-#2S#2S
XAC-1L1L	–	CC4-4-#4#4
XAC-2C1Y	M-431	CC4-4-1/0#1
XAC-2C1V	M-432	CC4-4-1/0#2
XAC-2C1L	M-433	CC4-4-1/0#4
XAC-2C2C	M-430	CC4-4-1/01/0
XAC-2G1Y	M-436	CC4-4-2/0#1
XAC-2G1V	M-437	CC4-4-2/0#2
XAC-2G2C	M-435	CC4-4-2/01/0
XAC-2G2G	M-434	CC4-4-2/02/0
XAC-2V1Y	M-454	CC4-4-250K#1
XAC-2V1V	M-455	CC4-4-250K#2
XAC-2V2C	M-453	CC4-4-250K1/0
XAC-2V2G	M-452	CC4-4-250K2/0
XAC-2V2V	M-449	CC4-4-250K250K
XAC-2V2L	M-451	CC4-4-250K3/0
XAC-2V2Q	M-450	CC4-4-250K4/0
XAC-2L1Y	M-441	CC4-4-3/0#1
XAC-2L1V	M-442	CC4-4-3/0#2
XAC-2L2C	M-440	CC4-4-3/01/0
XAC-2L2G	M-439	CC4-4-3/02/0
XAC-2L2L	M-438	CC4-4-3/03/0
XAC-3A1Y	M-462	CC4-4-300K#1
XAC-3A1V	M-463	CC4-4-300K#2
XAC-3A2C	M-461	CC4-4-300K1/0
XAC-3A2G	M-460	CC4-4-300K2/0
XAC-3A2V	M-457	CC4-4-300K250K
XAC-3A2L	M-459	CC4-4-300K3/0
XAC-3A3A	M-456	CC4-4-300K300K
XAC-3A2Q	M-458	CC4-4-300K4/0
XAC-3D1Y	M-471	CC4-4-350K#1
XAC-3D1V	M-472	CC4-4-350K#2
XAC-3D2C	M-470	CC4-4-350K1/0
XAC-3D2G	M-469	CC4-4-350K2/0
XAC-3D2V	M-466	CC4-4-350K250K
XAC-3D2L	M-468	CC4-4-350K3/0
XAC-3D3A	M-465	CC4-4-350K300K
XAC-3D3D	M-464	CC4-4-350K350K
XAC-3D2Q	M-467	CC4-4-350K4/0
XAC-2Q1Y	M-447	CC4-4-4/0#1
XAC-2Q1V	M-448	CC4-4-4/0#2
XAC-2Q2C	M-446	CC4-4-4/01/0
XAC-2Q2G	M-445	CC4-4-4/02/0
XAC-2Q2L	M-444	CC4-4-4/03/0

Exothermic welding system

Cross reference

Cadweld cat. no.	Thermoweld cat. no.	Furseweld cat. no.
XAC-2Q2Q	M-443	CC4-4-4/04/0
XAC-3Q2C	M-491	CC4-4-500K1/0
XAC-3Q2G	M-490	CC4-4-500K2/0
XAD-3Q2V	M-487	CC4-5-500K250K
XAD-3Q2L	M-489	CC4-5-500K3/0
XAD-3Q3A	M-486	CC4-5-500K300K
XAD-3Q3D	M-485	CC4-5-500K350K
XAD-3Q2Q	M-488	CC4-5-500K4/0
XAD-3Q3Q	M-483	CC4-5-500K500K
PCC-1Y1V	M-1282	CC6-4-#1#2
PCC-1Y1L	M-1283	CC6-4-#1#4
PCC-1Y1H	M-1284	CC6-4-#1#6
PCC-1Y1G	M-1285	CC6-4-#1#6S
PCC-1Y1D	M-1286	CC6-4-#1#8S
PCC-1V1V	M-1276	CC6-4-#2#2
PCC-1V1L	M-1277	CC6-4-#2#4
PCC-1V1H	M-1278	CC6-4-#2#6
PCC-1V1G	M-1279	CC6-4-#2#6S
PCC-1V1D	M-1280	CC6-4-#2#8S
PCC-1T1V	–	CC6-4-#2S#2
PCC-1T1T	–	CC6-4-#2S#2S
PCC-1T1H	–	CC6-4-#2S#6
PCC-1T1G	–	CC6-4-#2S#6S
PCC-1T2C	–	CC6-4-#2S1/0
PCC-1T2G	–	CC6-4-#2S2/0
PCC-1L1L	–	CC6-4-#4#4
PCC-1L1H	–	CC6-4-#4#6
PCC-1L1G	–	CC6-4-#4#6S
PCC-1L1D	–	CC6-4-#4#8S
PCC-2C1V	M-1289	CC6-4-1/0#2
PCC-2C1L	M-1290	CC6-4-1/0#4
PCC-2C1H	M-1291	CC6-4-1/0#6
PCC-2C1G	M-1292	CC6-4-1/0#6S
PCC-2C1D	M-1293	CC6-4-1/0#8S
PCC-2G1V	M-1297	CC6-4-2/0#2
PCC-2G1L	M-1298	CC6-4-2/0#4
PCC-2G1H	M-1299	CC6-4-2/0#6
PCC-2G1G	M-1300	CC6-4-2/0#6S
PCC-2G1D	M-1301	CC6-4-2/0#8S
–	–	CC6-4-2/02/0
PCC-2Q1Y	M-1305	CC6-4-4/0#1
PCC-2Q1V	M-1306	CC6-4-4/0#2
PCC-2Q1L	M-1307	CC6-4-4/0#4
PCC-2Q1H	M-1308	CC6-4-4/0#6
PCC-2Q1G	M-1309	CC6-4-4/0#6S
PCC-2Q1D	M-1310	CC6-4-4/0#8S
–	–	CC6-4-4/02/0
–	–	CC6-4-4/04/0
PTC-1Y1Y	M-1315	CC7-4-#1#1
PTC-1Y1X	M-6013	CC7-4-#1#1S
PTC-1Y1V	M-1316	CC7-4-#1#2

Cadweld cat. no.	Thermoweld cat. no.	Furseweld cat. no.
PTC-1Y1T	M-6017	CC7-4-#1#2S
PTC-1Y1L	M-1317	CC7-4-#1#4
PTC-1Y1H	M-5636	CC7-4-#1#6
PTC-1Y1G	M-5637	CC7-4-#1#6S
PTC-1Y1E	M-5638	CC7-4-#1#8
PTC-1Y1D	M-5639	CC7-4-#1#8S
PTC-1X1Y	M-5998	CC7-4-#1S#1
PTC-1X1V	M-6001	CC7-4-#1S#2
PTC-1X1T	M-1316-S	CC7-4-#1S#2S
PTC-1X1L	M-6008	CC7-4-#1S#4
PTC-1X1H	M-6010	CC7-4-#1S#6
PTC-1X1G	M-5636-S	CC7-4-#1S#6S
PTC-1X1E	M-6012	CC7-4-#1S#8
PTC-1X1D	M-5638-S	CC7-4-#1S#8S
PTC-1V1V	M-1313	CC7-4-#2#2
PTC-1V1L	M-1314	CC7-4-#2#4
PTC-1V1H	M-5631	CC7-4-#2#6
PTC-1V1G	M-5632	CC7-4-#2#6S
PTC-1V1E	M-5634	CC7-4-#2#8
PTC-1V1D	M-5635	CC7-4-#2#8S
PTC-1T1V	M-5973	CC7-4-#2S#2
PTC-1T1T	M-1313-S	CC7-4-#2S#2S
PTC-1T1L	M-5987	CC7-4-#2S#4
PTC-1T1H	M-5989	CC7-4-#2S#6
PTC-1T1G	M-5631-S	CC7-4-#2S#6S
PTC-1T1E	M-5993	CC7-4-#2S#8
PTC-1T1D	M-5634-S	CC7-4-#2S#8S
PTC-1L1L	M-1311	CC7-4-#4#4
PTC-1L1H	M-5627	CC7-4-#4#6
PTC-1L1G	M-8882	CC7-4-#4#6S
PTC-1L1E	M-5629	CC7-4-#4#8
PTC-1L1D	M-5630	CC7-4-#4#8S
PTC-2C1Y	M-1319	CC7-4-1/0#1
PTC-2C1X	M-6036	CC7-4-1/0#1S
PTC-2C1V	M-1320	CC7-4-1/0#2
PTC-2C1T	M-6044	CC7-4-1/0#2S
PTC-2C1L	M-1321	CC7-4-1/0#4
PTC-2C1H	M-5642	CC7-4-1/0#6
PTC-2C1G	M-1208	CC7-4-1/0#6S
PTC-2C1E	M-5644	CC7-4-1/0#8
PTC-2C1D	M-5645	CC7-4-1/0#8S
PTC-2C2C	M-1318	CC7-4-1/01/0
PTC-2C2B	M-6035	CC7-4-1/01/0S
PTC-2B1Y	M-6019	CC7-4-1/0S#1
PTC-2B1X	M-1319-S	CC7-4-1/0S#1S
PTC-2B1V	M-6023	CC7-4-1/0S#2
PTC-2B1T	M-1320-S	CC7-4-1/0S#2S
PTC-2B1L	M-6026	CC7-4-1/0S#4
PTC-2B1H	M-6806	CC7-4-1/0S#6
PTC-2B1G	M-5462-S	CC7-4-1/0S#6S
PTC-2B1E	M-6028	CC7-4-1/0S#8

Cadweld cat. no.	Thermoweld cat. no.	Furseweld cat. no.
PTC-2B1D	M-5644-S	CC7-4-1/0S#8S
PTC-2B2C	M-6227	CC7-4-1/0S1/0
PTC-2B2B	M-1318-S	CC7-4-1/0S1/0S
PTC-2G1Y	M-1324	CC7-4-2/0#1
PTC-2G1X	M-6052	CC7-4-2/0#1S
PTC-2G1V	M-1325	CC7-4-2/0#2
PTC-2G1L	M-5659	CC7-4-2/0#4
PTC-2G1H	M-5342	CC7-4-2/0#6
PTC-2G1G	M-5652	CC7-4-2/0#6S
PTC-2G1E	M-5668	CC7-4-2/0#8
PTC-2G1D	M-5943	CC7-4-2/0#8S
PTC-2G2C	M-1323	CC7-4-2/01/0
PTC-2G2B	M-6047	CC7-4-2/01/0S
PTC-2G2G	M-1322	CC7-4-2/02/0
PTC-2L1Y	M-1329	CC7-4-3/0#1
PTC-2L1X	M-6064	CC7-4-3/0#1S
PTC-2L1V	M-1330	CC7-4-3/0#2
PTC-2L1T	M-6065	CC7-4-3/0#2S
PTC-2L1L	M-6046	CC7-4-3/0#4
PTC-2L1H	M-5676	CC7-4-3/0#6
PTC-2L1G	M-5679	CC7-4-3/0#6S
PTC-2L1E	M-5680	CC7-4-3/0#8
PTC-2L1D	M-5682	CC7-4-3/0#8S
PTC-2L2C	M-1328	CC7-4-3/01/0
PTC-2L2B	M-6062	CC7-4-3/01/0S
PTC-2L2G	M-1327	CC7-4-3/02/0
PTC-2L2L	M-1326	CC7-4-3/03/0
PTC-2Q1Y	M-1335	CC7-4-4/0#1
PTC-2Q1X	M-6804	CC7-4-4/0#1S
PTC-2Q1V	M-1336	CC7-4-4/0#2
PTC-2Q1T	M-6805	CC7-4-4/0#2S
PTC-2Q1L	M-5340	CC7-4-4/0#4
PTC-2Q1H	M-5684	CC7-4-4/0#6
PTC-2Q1G	M-6552	CC7-4-4/0#6S
PTC-2Q1E	M-5686	CC7-4-4/0#8
PTC-2Q1D	M-5688	CC7-4-4/0#8S
PTC-2Q2C	M-1334	CC7-4-4/01/0
PTC-2Q2B	M-2551	CC7-4-4/01/0S
PTC-2Q2G	M-1333	CC7-4-4/02/0
PTC-2Q2L	M-1332	CC7-4-4/03/0
PTC-2Q2Q	M-1331	CC7-4-4/04/0
PTC-2Q2P	M-6803	CC7-4-4/04/0S
PTC-2P1Y	M-6089	CC7-4-4/0S#1
PTC-2P1X	M-1335-S	CC7-4-4/0S#1S
PTC-2P1V	M-6090	CC7-4-4/0S#2
PTC-2P1T	M-1336-S	CC7-4-4/0S#2S
PTC-2P1L	M-6109	CC7-4-4/0S#4
PTC-2P1H	M-6111	CC7-4-4/0S#6
PTC-2P1G	M-5684-S	CC7-4-4/0S#6S
PTC-2P1E	M-6112	CC7-4-4/0S#8
PTC-2P1D	M-5686-S	CC7-4-4/0S#8S

Exothermic welding system

Cross reference

Cadweld cat. no.	Thermoweld cat. no.	Furseweld cat. no.
PTC-2P2C	M-6085	CC7-4-4/0S1/0
PTC-2P2B	M-1334-S	CC7-4-4/0S1/0S
PTC-2P2G	M-6082	CC7-4-4/0S2/0
PTC-2P2L	M-6081	CC7-4-4/0S3/0
PTC-2P2Q	M-6071	CC7-4-4/0S4/0
PTC-2P2P	M-1331-S	CC7-4-4/0S4/0S
GRT-14A1V	–	CR1-3-500#2
GRT-14A1T	–	CR1-3-500#2S
GRT-14A1L	M-8403	CR1-3-500#4
GRT-14A1K	M-8403-S	CR1-3-500#4S
GRT-14A1H	M-8402	CR1-3-500#6
GRT-14A1G	M-8402-S	CR1-3-500#6S
GRT-14B1V	–	CR1-3-500L#2
GRT-14B1T	–	CR1-3-500L#2S
GRT-14B1L	M-8403-T	CR1-3-500L#4
GRT-14B1K	M-8403-ST	CR1-3-500L#4S
GRT-14B1H	M-8402-T	CR1-3-500L#6
GRT-14B1G	M-8402-ST	CR1-3-500L#6S
GRT-161L	M-8415	CR1-3-625#4
GRT-161K	M-8415-S	CR1-3-625#4S
GRT-161H	M-8414	CR1-3-625#6
GRT-161G	M-8414-S	CR1-3-625#6S
GRP-181L	M-8426	CR1-3-750#4
GRP-181K	M-8426-S	CR1-3-750#4S
GRT-181H	M-8422	CR1-3-750#6
GRT-181G	M-8422-S	CR1-3-750#6S
GRC-151Y	M-496	CR1-4-500#1
GRC-152C	M-497	CR1-4-5001/0
GRC-152B	M-497-S	CR1-4-5001/0S
GRC-152G	M-498	CR1-4-5002/0
GRC-152V	M-501	CR1-4-500250K
GRC-152L	M-499	CR1-4-5003/0
GRC-153A	M-502	CR1-4-500300K
GRC-152Q	M-500	CR1-4-5004/0
GRC-141Y	M-496-T	CR1-4-500L#1
GRC-142C	M-497-T	CR1-4-500L1/0
GRC-142B	M-497-ST	CR1-4-500L1/0S
GRC-142G	M-498-T	CR1-4-500L2/0
GRC-142V	M-501-T	CR1-4-500L250K
GRC-142L	M-499-T	CR1-4-500L3/0
GRC-143A	M-502-T	CR1-4-500L300K
GRC-142Q	M-500-T	CR1-4-500L4/0
GRC-161Y	M-504	CR1-4-625#1
GRC-161V	M-503	CR1-4-625#2
GRT-161V	–	CR1-4-625#2
GRC-161T	–	CR1-4-625#2S
GRT-161T	–	CR1-4-625#2S
GRC-162C	M-505	CR1-4-6251/0
GRC-162B	M-505-S	CR1-4-6251/0S
GRC-162G	M-506	CR1-4-6252/0
GRC-162V	M-509	CR1-4-625250K

Cadweld cat. no.	Thermoweld cat. no.	Furseweld cat. no.
GRC-162L	M-507	CR1-4-6253/0
GRC-163A	M-510	CR1-4-625300K
GRC-163D	M-511	CR1-4-625350K
GRC-162Q	M-508	CR1-4-6254/0
GRC-163Q	M-513	CR1-4-625500K
GRC-181Y	M-514	CR1-4-750#1
GRC-181V	M-5781	CR1-4-750#2
GRC-181T	–	CR1-4-750#2S
GRC-182C	M-515	CR1-4-7501/0
GRC-182B	M-515-S	CR1-4-7501/0S
GRC-182G	M-516	CR1-4-7502/0
GRC-182V	M-519	CR1-4-750250K
GRC-182L	M-517	CR1-4-7503/0
GRC-183A	M-520	CR1-4-750300K
GRC-183D	M-521	CR1-4-750350K
GRC-182Q	M-518	CR1-4-7504/0
GRC-183Q	M-523	CR1-4-750500K
–	–	CR17-4-7504/0
GTT-14A1L	M-8435	CR2-3-500#4
GTT-14A1K	M-8435-S	CR2-3-500#4S
GTT-14A1H	M-8434	CR2-3-500#6
GTT-14A1G	M-8434-S	CR2-3-500#6S
GTT-14B1L	M-8435-T	CR2-3-500L#4
GTT-14B1K	M-8435-ST	CR2-3-500L#4S
GTT-14B1H	M-8434-T	CR2-3-500L#6
GTT-14B1G	M-8434-ST	CR2-3-500L#6S
GTT-161L	M-8442	CR2-3-625#4
GTT-161K	M-8442-S	CR2-3-625#4S
GTT-161H	M-8441	CR2-3-625#6
GTT-161G	M-8441-S	CR2-3-625#6S
GTP-181L	M-8454	CR2-3-750#4
GTP-181K	M-8454-S	CR2-3-750#4S
GTP-181H	M-8452	CR2-3-750#6
GTP-181G	M-8452-S	CR2-3-750#6S
GTC-151Y	M-538	CR2-4-500#1
GTC-151V	M-537	CR2-4-500#2
GTC-151T	–	CR2-4-500#2S
GTC-152C	M-539	CR2-4-5001/0
GTC-152B	M-539-S	CR2-4-5001/0S
GTC-152G	M-540	CR2-4-5002/0
GTC-152V	M-543	CR2-4-500250K
GTC-152L	M-541	CR2-4-5003/0
GTC-153A	M-544	CR2-4-500300K
GTC-152Q	M-542	CR2-4-5004/0
GTC-141Y	M-538-T	CR2-4-500L#1
GTC-141V	M-537-T	CR2-4-500L#2
GTC-141T	–	CR2-4-500L#2S
GTC-142C	M-539-T	CR2-4-500L1/0
GTC-142B	–	CR2-4-500L1/0S
GTC-142G	M-540-T	CR2-4-500L2/0
GTC-142V	M-543-T	CR2-4-500L250K

Cadweld cat. no.	Thermoweld cat. no.	Furseweld cat. no.
GTC-142L	M-541-T	CR2-4-500L3/0
GTC-143A	M-544-T	CR2-4-500L300K
GTC-142Q	M-542-T	CR2-4-500L4/0
GTC-161Y	M-546	CR2-4-625#1
GTC-161V	M-545	CR2-4-625#2
GTC-161T	–	CR2-4-625#2S
GTC-162C	M-547	CR2-4-6251/0
GTC-162B	M-547-S	CR2-4-6251/0S
GTC-162G	M-548	CR2-4-6252/0
GTC-162V	M-551	CR2-4-625250K
GTC-162L	M-549	CR2-4-6253/0
GTC-163A	M-552	CR2-4-625300K
GTC-163D	M-553	CR2-4-625350K
GTC-162Q	M-550	CR2-4-6254/0
GTC-163Q	M-555	CR2-4-625500K
GTC-181Y	M-557	CR2-4-750#1
GTC-181V	M-556	CR2-4-750#2
GTC-181T	–	CR2-4-750#2S
GTC-182C	M-558	CR2-4-7501/0
GTC-182B	M-558-S	CR2-4-7501/0S
GTC-182G	M-559	CR2-4-7502/0
GTC-182V	M-562	CR2-4-750250K
GTC-182L	M-560	CR2-4-7503/0
GTC-183A	M-563	CR2-4-750300K
GTC-183D	M-564	CR2-4-750350K
GTC-182Q	M-561	CR2-4-7504/0
GTC-183Q	M-566	CR2-4-750500K
GYJ-163Q	M-1593	CR3-10-625500K
GYJ-183D	M-1599	CR3-10-750350K
GYJ-183Q	M-1601	CR3-10-750500K
GYE-152C	M-1581	CR3-9-5001/0
GYE-152B	M-1581-S	CR3-9-5001/0S
GYE-152G	M-1582	CR3-9-5002/0
GYE-152V	M-1584	CR3-9-500250K
GYE-152L	M-6267	CR3-9-5003/0
GYE-153A	M-1585	CR3-9-500300K
GYE-152Q	M-1583	CR3-9-5004/0
GYE-142C	M-1581-T	CR3-9-500L1/0
GYE-142B	M-1581-ST	CR3-9-500L1/0S
GYE-142G	M-1582-T	CR3-9-500L2/0
GYE-142V	M-1584-T	CR3-9-500L250K
GYE-142L	M-6267-T	CR3-9-500L3/0
GYE-143A	M-1585-T	CR3-9-500L300K
GYE-142Q	M-1583-T	CR3-9-500L4/0
–	–	CR3-9-625#2
GYE-162C	M-1586	CR3-9-6251/0
GYE-162B	M-1586-S	CR3-9-6251/0S
GYE-162G	M-1587	CR3-9-6252/0
GYE-162V	M-1589	CR3-9-625250K
GYE-162L	M-8305	CR3-9-6253/0
GYE-163A	M-1590	CR3-9-625300K

Exothermic welding system

Cross reference

Cadweld cat. no.	Thermoweld cat. no.	Furseweld cat. no.
GYE-163D	M-1591	CR3-9-625350K
GYE-162Q	M-1588	CR3-9-6254/0
GYE-182C	M-1594	CR3-9-7501/0
GYE-182B	M-1594-S	CR3-9-7501/0S
GYE-182G	M-1595	CR3-9-7502/0
GYE-182V	M-1597	CR3-9-750250K
GYE-182L	M-6608	CR3-9-7503/0
GYE-183A	–	CR3-9-750300K
GYE-182Q	M-1596	CR3-9-7504/0
RR	–	CRE1-3-#1Y
RR	–	CRE1-3-#1Z
RR	–	CRE1-3-#2SY
RR	–	CRE1-3-#2SZ
RR	–	CRE1-3-#2Y
RR	–	CRE1-3-#2Z
RR	–	CRE1-3-#4Y
RR	–	CRE1-3-#4Z
RR	–	CRE1-3-1/0Y
RR	–	CRE1-3-1/0Z
RR	–	CRE1-3-2/0Y
RR	–	CRE1-3-2/0Z
RR	–	CRE1-3-3/0Y
RR	–	CRE1-3-3/0Z
RR	–	CRE1-3-4/0Y
RR	–	CRE1-3-4/0Z
RRC-511Y	M-7503	CRE1-4-#13R
RRC-511V	M-7502	CRE1-4-#23R
RRC-511T	—	CRE1-4-#2S3R
RRC-511L	M-7501	CRE1-4-#43R
RRC-512C	M-7504	CRE1-4-1/03R
RRC-512G	M-7505	CRE1-4-2/03R
RRC-512L	M-7506	CRE1-4-3/03R
RRC-512Q	M-7507	CRE1-4-4/03R
RC	–	CRE3-3-#2SY
RC	–	CRE3-3-#2SZ
RC	–	CRE3-3-#2Y
RC	–	CRE3-3-#2Z
RC	–	CRE3-3-#4Y
RC	–	CRE3-3-#4Z
–	–	CRE3-3-1/0Y
	–	CRE3-3-1/0Z
	–	CRE3-3-2/0Y
	–	CRE3-3-2/0Z
RC	–	CRE3-4-#1Y
RC	–	CRE3-4-#1Z
RC	–	CRE3-4-1/0Y
RC	–	CRE3-4-1/0Z
RC	–	CRE3-4-2/0Y
RC	–	CRE3-4-2/0Z
RC	–	CRE3-4-3/0Y
RC	–	CRE3-4-3/0Z

Cadweld cat. no.	Thermoweld cat. no.	Furseweld cat. no.
RC	–	CRE3-4-4/0Y
RC	–	CRE3-4-4/0Z
RD	–	CRE4-3-#1Y
RD	–	CRE4-3-#1Z
RD	–	CRE4-3-#2SY
RD	–	CRE4-3-#2SZ
RD	–	CRE4-3-#2Y
RD	–	CRE4-3-#2Z
RD	–	CRE4-3-#4Y
RD	–	CRE4-3-#4Z
RD	–	CRE4-3-1/0Y
RD	–	CRE4-3-1/0Z
RD	–	CRE4-3-2/0Y
RD	–	CRE4-3-2/0Z
RD	–	CRE4-3-3/0Y
RD	–	CRE4-3-3/0Z
RD	–	CRE4-3-4/0Y
RD	–	CRE4-3-4/0Z
RJ	–	CRE6-3-#1Y
RJ	–	CRE6-3-#1Z
RJ	–	CRE6-3-#2SY
RJ	–	CRE6-3-#2SZ
RJ	–	CRE6-3-#2Y
RJ	–	CRE6-3-#2Z
RJ	–	CRE6-3-#4Y
RJ	–	CRE6-3-#4Z
RJ	–	CRE6-4-1/0Y
RJ	–	CRE6-4-1/0Z
RJ	–	CRE6-4-2/0Y
RJ	–	CRE6-4-2/0Z
RJ	–	CRE6-4-3/0Y
RJ	–	CRE6-4-3/0Z
RJ	–	CRE6-4-4/0Y
RJ	–	CRE6-4-4/0Z
HSC-2C	M-644	CS1-4-1/0
HSD-4Y	M-654	CS1-4-1000K
HSC-2G	M-645	CS1-4-2/0
HSC-2V	M-648	CS1-4-250K
HSC-2L	M-646	CS1-4-3/0
HSC-3A	M-649	CS1-4-300K
HSC-3D	M-650	CS1-4-350K
HSC-2Q	M-647	CS1-4-4/0
HSC-3Q	M-652	CS1-4-500K
HSD-4L	M-653	CS1-4-750K
HTC-2C	M-616	CS2-4-1/0
HTC-2G	M-617	CS2-4-2/0
HTC-2V	M-620	CS2-4-250K
HTC-2L	M-618	CS2-4-3/0
HTC-3A	M-621	CS2-4-300K
HTC-3D	M-622	CS2-4-350K
HTC-2Q	M-619	CS2-4-4/0

Cadweld cat. no.	Thermoweld cat. no.	Furseweld cat. no.
VBC-1Y	M-5361	CS25-4-#1
VBC-1Y-V3	–	CS25-4-#1C
VBC-1Y-V5	–	CS25-4-#1D
VBC-1Y-V8	–	CS25-4-#1F
VBC-1Y-V21C	–	CS25-4-#1G
VBC-1V	M-2781	CS25-4-#2
VBC-1V-V3	–	CS25-4-#2C
VBC-1V-V5	–	CS25-4-#2D
VBC-1V-V8	–	CS25-4-#2F
VBC-1V-V21C	–	CS25-4-#2G
VBC-1T	–	CS25-4-#2S
VBC-1T-V3	–	CS25-4-#2SC
VBC-1T-V5	–	CS25-4-#2SD
VBC-1T-V8	–	CS25-4-#2SF
VBC-1T-V21	–	CS25-4-#2SG
VBC-1L	M-5359	CS25-4-#4
VBC-1L-V3	–	CS25-4-#4C
VBC-1L-V5	–	CS25-4-#4D
VBC-1L-V8	–	CS25-4-#4F
VBC-1L-V21	–	CS25-4-#4G
VBC-2C	M-2189	CS25-4-1/0
VBC-2C-V3	–	CS25-4-1/0C
VBC-2C-V5	–	CS25-4-1/0D
VBC-2C-V8	–	CS25-4-1/0F
VBC-2C-V20	–	CS25-4-1/0G
VBC-2G	M-2540	CS25-4-2/0
VBC-2G-V3	–	CS25-4-2/0C
VBC-2G-V5	–	CS25-4-2/0D
VBC-2G-V8	–	CS25-4-2/0F
VBC-2G-V20	–	CS25-4-2/0G
VBC-2V	M-8165	CS25-4-250K
VBC-2L	M-5362	CS25-4-3/0
VBC-2L-V3	–	CS25-4-3/0C
VBC-2L-V5	–	CS25-4-3/0D
VBC-2L-V8	–	CS25-4-3/0F
VBC-2L-V20	–	CS25-4-3/0G
VBC-3A	M-5363	CS25-4-300K
VBC-3D	M-9029	CS25-4-350K
VBC-2Q	M-8718	CS25-4-4/0
VBC-2Q-V3	–	CS25-4-4/0C
VBC-2Q-V5	–	CS25-4-4/0D
VBC-2Q-V8	–	CS25-4-4/0F
VBC-2Q-V20	–	CS25-4-4/0G
VBR-3Q	M-8512	CS25-4-500K
HTD-3Q	M-624	CS2-5-500K
VGC-1Y	M-6279	CS27-4-#1
VGC-1Y-V3	–	CS27-4-#1C
VGC-1Y-V5	–	CS27-4-#1D
VGC-1Y-V8	–	CS27-4-#1F
VGC-1Y-V21C	–	CS27-4-#1G
VGC-1V	M-5822	CS27-4-#2

Exothermic welding system

Cross reference

Cadweld cat. no.	Thermoweld cat. no.	Furseweld cat. no.
VGC-1V-V3	–	CS27-4-#2C
VGC-1V-V5	–	CS27-4-#2D
VGC-1V-V8	–	CS27-4-#2F
VGC-1V-V21C	–	CS27-4-#2G
VGC-1T	–	CS27-4-#2S
VGC-1T-V3	–	CS27-4-#2SC
VGC-1T-V5	–	CS27-4-#2SD
VGC-1T-V8	–	CS27-4-#2SF
VGC-1T-V21	–	CS27-4-#2SG
VGC-1H	M-5245	CS27-4-#4
VGC-1L	M-5816	CS27-4-#4
VGC-1L-V3	–	CS27-4-#4C
VGC-1L-V5	–	CS27-4-#4D
VGC-1L-V8	–	CS27-4-#4F
VGC-1L-V21	–	CS27-4-#4G
VGC-2C	M-1168	CS27-4-1/0
VGC-2C-V3	–	CS27-4-1/0C
VGC-2C-V5	–	CS27-4-1/0D
VGC-2C-V8	–	CS27-4-1/0F
VGC-2C-V20	–	CS27-4-1/0G
VGC-2G	M-9242	CS27-4-2/0
VGC-2G-V3	–	CS27-4-2/0C
VGC-2G-V5	–	CS27-4-2/0D
VGC-2G-V8	–	CS27-4-2/0F
VGC-2G-V20	–	CS27-4-2/0G
VGC-2V	M-2520	CS27-4-250K
VGC-2L	M-6195	CS27-4-3/0
VGC-2L-V3	–	CS27-4-3/0C
VGC-2L-V5		CS27-4-3/0D
VGC-2L-V8		CS27-4-3/0F
VGC-2L-V20		CS27-4-3/0G
VGC-2Q	M-2177	CS27-4-4/0
VGC-2Q-V3	–	CS27-4-4/0C
VGC-2Q-V5	–	CS27-4-4/0D
VGC-2Q-V8	–	CS27-4-4/0F
VGC-2Q-V20	–	CS27-4-4/0G
VNC-1Y	M-6060	CS31-4-#1
VGC-1Y-V3	–	CS31-4-#1C
VGC-1Y-V5	–	CS31-4-#1D
VGC-1Y-V8	–	CS31-4-#1F
VGC-1Y-V21C	–	CS31-4-#1G
VNC-1V	M-2569	CS31-4-#2
VGC-1V-V3	–	CS31-4-#2C
VGC-1V-V5	–	CS31-4-#2D
VGC-1V-V8	–	CS31-4-#2F
VGC-1V-V21C	–	CS31-4-#2G
VNC-1T	–	CS31-4-#2S
VGC-1T-V3	–	CS31-4-#2SC
VGC-1T-V5	–	CS31-4-#2SD
VGC-1T-V8	–	CS31-4-#2SF
VGC-1T-V21	–	CS31-4-#2SG

Cadweld cat. no.	Thermoweld cat. no.	Furseweld cat. no.
VNC-1L	M-2761	CS31-4-#4
VGC-1L-V3	–	CS31-4-#4C
VGC-1L-V5	–	CS31-4-#4D
VGC-1L-V8	–	CS31-4-#4F
VGC-1L-V21	–	CS31-4-#4G
VNC-1H	M-5910	CS31-4-#6
VNC-2C	M-5419	CS31-4-1/0
VGC-2C-V3	–	CS31-4-1/0C
VGC-2C-V5	–	CS31-4-1/0D
VGC-2C-V8	–	CS31-4-1/0F
VGC-2C-V20	–	CS31-4-1/0G
VNC-2G	M-2567	CS31-4-2/0
VGC-2G-V3	–	CS31-4-2/0C
VGC-2G-V5	–	CS31-4-2/0D
VGC-2G-V8	–	CS31-4-2/0F
VGC-2G-V20	–	CS31-4-2/0G
VNC-2V	M-2568	CS31-4-250K
VNC-2L	M-6072	CS31-4-3/0
VGC-2L-V3	–	CS31-4-3/0C
VGC-2L-V5	–	CS31-4-3/0D
VGC-2L-V8	–	CS31-4-3/0F
VGC-2L-V20	–	CS31-4-3/0G
VNC-3A	M-6061	CS31-4-300K
VNC-3D	M-6067	CS31-4-350K
VNC-2Q	M-9253	CS31-4-4/0
VGC-2Q-V3	–	CS31-4-4/0C
VGC-2Q-V5	–	CS31-4-4/0D
VGC-2Q-V8	–	CS31-4-4/0F
VGC-2Q-V20	–	CS31-4-4/0G
VNC-3Q	M-8359	CS31-4-500K
HAA-1Y-325C	M-6269	CS32-2-#1D
HAA-1Y-7C	M-6270	CS32-2-#1F
HAA-1Y-11C	M-6271	CS32-2-#1G
HAA-1V-162C	M-6016	CS32-2-#2C
HAA-1V-350C	M-2576	CS32-2-#2D
HAA-1V-7C	M-2514	CS32-2-#2F
HAA-1V-11C	M-2515	CS32-2-#2G
HAA-1T-162C	–	CS32-2-#2SC
HAA-1T-350C	–	CS32-2-#2SD
HAA-1T-7C	–	CS32-2-#2SF
HAA-1T-11C	–	CS32-2-#2SG
HAA-1L-162C	M-8014	CS32-2-#4C
HAA-1L-350C	M-8015	CS32-2-#4D
HAA-1L-7C	M-2516	CS32-2-#4F
HAA-1L-11C	M-2517	CS32-2-#4G
HAH-2C-350C	M-8504	CS32-4-1/0D
HAH-2C-8C	M-8505	CS32-4-1/0F
HAH-2C-20C	M-6272	CS32-4-1/0G
HAH-2G-350C	M-2776	CS32-4-2/0D
HAH-2G-8C	M-6273	CS32-4-2/0F
HAH-2G-20C	M-6274	CS32-4-2/0G

Cadweld cat. no.	Thermoweld cat. no.	Furseweld cat. no.
HAH-2L-350C	M-6275	CS32-4-3/0D
HAH-2L-8C	M-6276	CS32-4-3/0F
HAH-2L-20C	M-6278	CS32-4-3/0G
HAH-2Q-350C	M-9236	CS32-4-4/0D
HAH-2Q-8C	M-9237	CS32-4-4/0F
HAH-2Q-20C	M-9238	CS32-4-4/0G
VSC-1Y	M-589	CS3-4-#1
VSC-1Y-V3C	M-2482	CS3-4-#1C
VSC-1Y-V5C	M-2483	CS3-4-#1D
VSC-1Y-V8C	M-2484	CS3-4-#1F
VSC-1Y-V21C	M-2485	CS3-4-#1G
VSC-1V	M-588	CS3-4-#2
VSC-1V-V3C	M-9233	CS3-4-#2C
VSC-1V-V5C	M-2480	CS3-4-#2D
VSC-1V-V8C	M-2583	CS3-4-#2F
VSC-1V-V21C	M-2481	CS3-4-#2G
VSC-1T	–	CS3-4-#2S
VSC-1T-V3C	–	CS3-4-#2SC
VSC-1T-V5C	–	CS3-4-#2SD
VSC-1T-V8C	–	CS3-4-#2SF
VSC-1T-V21C	–	CS3-4-#2SG
VSC-1L	M-586	CS3-4-#4
VSC-1L-V3C	M-2476	CS3-4-#4C
VSC-1L-V5C	M-2477	CS3-4-#4D
VSC-1L-V8C	M-2478	CS3-4-#4F
VSC-1L-V21C	M-2479	CS3-4-#4G
VSC-1H	M-585	CS3-4-#6
VSC-2C	M-590	CS3-4-1/0
VSC-2C-V3C	M-2486	CS3-4-1/0C
VSC-2C-V5C	M-2487	CS3-4-1/0D
VSC-2C-V8C	M-2488	CS3-4-1/0F
VSC-2C-V21C	M-2489	CS3-4-1/0G
HCA-1Y-350C	–	CS34-2-#1D
HCA-1Y-7C	–	CS34-2-#1F
HCA-1Y-11C	–	CS34-2-#1G
HCA-1V-162C	–	CS34-2-#2C
HCA-1V-350C	–	CS34-2-#2D
HCA-1V-7C	–	CS34-2-#2F
HCA-1V-11C	–	CS34-2-#2G
HCA-1T-162C	–	CS34-2-#2SC
HCA-1T-350C	–	CS34-2-#2SD
HCA-1T-7C	–	CS34-2-#2SF
HCA-1T-11C	–	CS34-2-#2SG
HCA-1L-162C	–	CS34-2-#4C
HCA-1L-350C	–	CS34-2-#4D
HCA-1L-7C	–	CS34-2-#4F
HCA-1L-11C	–	CS34-2-#4G
VSC-2G	M-591	CS3-4-2/0
VSC-2G-V3C	M-8833	CS3-4-2/0C
VSC-2G-V5C	M-2490	CS3-4-2/0D
VSC-2G-V8C	M-2491	CS3-4-2/0F

Exothermic welding system

Cross reference

Cadweld cat. no.	Thermoweld cat. no.	Furseweld cat. no.
VSC-2G-V21C	M-2492	CS3-4-2/0G
VSC-2V	M-594	CS3-4-250K
VSC-2L	M-592	CS3-4-3/0
VSC-2L-V3C	M-2493	CS3-4-3/0C
VSC-2L-V5C	M-2494	CS3-4-3/0D
VSC-2L-V8C	M-2495	CS3-4-3/0F
VSC-2L-V21C	M-2496	CS3-4-3/0G
VSC-3A	M-595	CS3-4-300K
VSC-3D	M-596	CS3-4-350K
VSC-2Q	M-593	CS3-4-4/0
VSC-2Q-V3C	M-9021	CS3-4-4/0C
VSC-2Q-V5C	M-2497	CS3-4-4/0D
VSC-2Q-V8C	M-2498	CS3-4-4/0F
VSC-2Q-V21C	M-2499	CS3-4-4/0G
HTC-2C-350C	–	CS34-4-1/0D
HTC-2C-8C	–	CS34-4-1/0F
HTC-2C-20C	–	CS34-4-1/0G
HTC-2G-350C	–	CS34-4-2/0D
HTC-2G-8C	–	CS34-4-2/0F
HTC-2G-20C	–	CS34-4-2/0G
HTC-2L-350C	–	CS34-4-3/0D
HTC-2L-8C	–	CS34-4-3/0F
HTC-2L-20C	–	CS34-4-3/0G
HTC-2Q-350C	–	CS34-4-4/0D
HTC-2Q-8C	–	CS34-4-4/0F
HTC-2Q-20C	–	CS34-4-4/0G
VSC-3Q	M-598	CS3-4-500K
VSD-4Y	M-600	CS3-5-1000K
VSD-4L	M-599	CS3-5-750K
VVC-1Y	M-1219	CS4-4-#1
VVC-1Y-V3	–	CS4-4-#1C
VVC-1Y-V5	–	CS4-4-#1D
VVC-1Y-V8	–	CS4-4-#1F
VVC-1Y-V21	–	CS4-4-#1G
VVC-1V	M-1218	CS4-4-#2
VVC-1V-V3	–	CS4-4-#2C
VVC-1V-V5	–	CS4-4-#2D
VVC-1V-V8	–	CS4-4-#2F
VVC-1V-V21	–	CS4-4-#2G
VVC-1T	–	CS4-4-#2S
VVC-1T-V3	–	CS4-4-#2SC
VVC-1T-V5	–	CS4-4-#2SD
VVC-1T-V8	–	CS4-4-#2SF
VVC-1T-V21	–	CS4-4-#2SG
VVC-1L	M-1216	CS4-4-#4
VVC-1L-V3	–	CS4-4-#4C
VVC-1L-V5	–	CS4-4-#4D
VVC-1L-V8	–	CS4-4-#4F
VVC-1L-V21	–	CS4-4-#4G
VVC-1H	M-1215	CS4-4-#6
VVR-2C	M-1220	CS4-5-1/0

Cadweld cat. no.	Thermoweld cat. no.	Furseweld cat. no.
VVR-2C-V3	–	CS4-5-1/0C
VVR-2C-V5	–	CS4-5-1/0D
VVR-2C-V8	–	CS4-5-1/0F
VVR-2C-V20	–	CS4-5-1/0G
VVR-2G	M-1221	CS4-5-2/0
VVR-2G-V3	–	CS4-5-2/0C
VVR-2G-V5	–	CS4-5-2/0D
VVR-2G-V8	–	CS4-5-2/0F
VVR-2G-V20	–	CS4-5-2/0G
VVR-2V	M-1224	CS4-5-250K
VVR-2L	M-1222	CS4-5-3/0
VVR-2L-V3	–	CS4-5-3/0C
VVR-2L-V5	–	CS4-5-3/0D
VVR-2L-V8	–	CS4-5-3/0F
VVR-2L-V20	–	CS4-5-3/0G
VVR-2Q	M-1223	CS4-5-4/0
VVR-2Q-V3	–	CS4-5-4/0C
VVR-2Q-V5	–	CS4-5-4/0D
VVR-2QV8	–	CS4-5-4/0F
VVR-2Q-V20	–	CS4-5-4/0G
VFC-1Y	M-1639	CS7-4-#1
VFC-1Y-V3	–	CS7-4-#1C
VFC-1Y-V5	–	CS7-4-#1D
VFC-1Y-V8	–	CS7-4-#1F
VFC-1Y-V21	–	CS7-4-#1G
VFC-1V	M-1638	CS7-4-#2
VFC-1V-V3	–	CS7-4-#2C
VFC-1V-V5	–	CS7-4-#2D
VFC-1V-V8	–	CS7-4-#2F
VFC-1V-V21	–	CS7-4-#2G
VFC-1T	–	CS7-4-#2S
VFC-1T-V3	–	CS7-4-#2SC
VFC-1T-V5	–	CS7-4-#2SD
VFC-1T-V8	–	CS7-4-#2SF
VFC-1T-V21	–	CS7-4-#2SG
VFC-1L	M-1636	CS7-4-#4
VFC-1L-V3	–	CS7-4-#4C
VFC-1L-V5	–	CS7-4-#4D
VFC-1L-V8	–	CS7-4-#4F
VFC-1L-V21	–	CS7-4-#4G
VFC-2C	M-1640	CS7-4-1/0
VFC-2C-V3	–	CS7-4-1/0C
VFC-2C-V5	–	CS7-4-1/0D
VFC-2C-V8	–	CS7-4-1/0F
VFC-2C-V20	–	CS7-4-1/0G
VFC-2G	M-1641	CS7-4-2/0
VFC-2G-V3	–	CS7-4-2/0C
VFC-2G-V5	–	CS7-4-2/0D
VFC-2G-V8	–	CS7-4-2/0F
VFC-2G-V20	–	CS7-4-2/0G
VFR-2V	M-1644	CS7-5-250K

Cadweld cat. no.	Thermoweld cat. no.	Furseweld cat. no.
VFR-2L	M-1642	CS7-5-3/0
VFR-2L-V3	–	CS7-5-3/0C
VFR-2L-V5	–	CS7-5-3/0D
VFR-2L-V8	–	CS7-5-3/0F
VFR-2L-V20	–	CS7-5-3/0G
VFR-3A	M-1645	CS7-5-300K
VFR-2Q	M-1643	CS7-5-4/0
VFR-2Q-V3	–	CS7-5-4/0C
VFR-2Q-V5	–	CS7-5-4/0D
VFR-2Q-V8	–	CS7-5-4/0F
VFR-2Q-V20	–	CS7-5-4/0G
VFF-3D	M-1646	CS7-6-350K
VFF-3Q	M-1648	CS7-6-500K
HAA-1Y	M-631	CS8-2-#1
HAA-1V	M-630	CS8-2-#2
HAA-1T	–	CS8-2-#2S
HAA-1L	M-629	CS8-2-#4
HAA-1H	M-628	CS8-2-#6
HCA-1Y	M-605	CS9-2-#1
HCA-1V	M-604	CS9-2-#2
HCA-1T	–	CS9-2-#2S
HCA-1L	M-603	CS9-2-#4
HCA-1H	M-602	CS9-2-#6
15	15	15BKB
25	25	25BKB
32	32	32BKB
45	45	45BKB
65	65	65BKB
90	90	90BKB
115	115	115BKB
150	150	150BKB
200	200	200BKB
250	250	250BKB
L160	40-0106-00	HCPK4
L159	40-0107-00	HCPK5
T314	38-0135-00	WWB1
T314A	38-0135-01	WRB1
T313	38-0306-00	BFC
T320	38-0309-00	FGUN
T394	38-3922-00	BCM
B136A/B	40-0319-01/3/5/6	STM1
T403	38-4129-00	MSC
B144A/B/C/E	38-406-1/2/3/4-00	PACK-A

Exothermic welding system

Sure Shot cross reference

Ground rod	Conductor size (AWG or kcmil)		Cadweld cat. no.	Thermoweld cat. no.	Furseweld cat. no.
Size (in.)	**Solid**	**Stranded**	**TYPE GR(CR1)**	**TYPE CR-1**	**TYPE CR1**
½	#6, 8	#8	GR1-141G	–	–
	#3, 4	#4, 6	GR1-141L	–	–
	#1, 2	#2, 3	GR1-141V	–	–
⅝	#6, 8	#8	GR1-161G	M-2012	SCR1-58-6808
	#3, 4	#4, 6	GR1-161L	M-2013	SCR1-58-3446
	#1, 2	#2, 3	GR1-161V	M-2014	SCR1-58-1223
	2/0, 1/0	1/0, #1	GR1-162C	M-2015	SCR1-58-2010
	–	2/0	GR1-162G	M-2016	SCR1-58-0020
¾	#6, 8	#8	GR1-181G	M-2017	SCR1-34-6808
	#3, 4	#4, 6	GR1-181L	M-2018	SCR1-34-3446
	#1, 2	#2, 3	GR1-181V	M-2019	SCR1-34-1223
	2/0, 1/0	1/0, #1	GR1-182C	M-2020	SCR1-34-2010
	–	2/0	GR1-182G	M-2021	SCR1-34-0020
	–	4/0	GR1-182Q	–	SCR1-34-0040
Size (in.)	**Solid**	**Stranded**	**TYPE GT(CR2)**	**TYPE CR-2**	**TYPE CR2**
½	#6, 8	#8	GT1-141G	–	–
	#3, 4	#4, 6	GT1-141L	–	–
	#1, 2	#2, 3	GT1-141V	–	–
⅝	#6, 8	#8	GT1-161G	M-2027	SCR2-58-6808
	#3, 4	#4, 6	GT1-161L	M-2028	SCR2-58-3446
	#1, 2	#2, 3	GT1-161V	M-2029	SCR2-58-1223
	2/0, 1/0	1/0, #1	GT1-162C	M-2030	SCR2-58-2010
	–	2/0	–	–	SCR2-58-0020*
¾	#6, 8	#8	GT1-181G	M-2031	SCR2-34-6808
	#3, 4	#4, 6	GT1-181L	M-2032	SCR2-34-3446
	#1, 2	#2, 3	GT1-181V	M-2033	SCR2-34-1223
	2/0, 1/0	1/0, #1	GT1-182C	M-2034	SCR2-34-2010
	–	2/0	–	–	SCR2-34-0020*
	–	4/0	–	–	SCR2-34-0040*
Size (in.)	**Solid**	**Stranded**	**TYPE NT(CR17)**		**TYPE CR17**
½	#6, 8	#8	NT1-141G	–	–
	#3, 4	#4, 6	NT1-141L	–	–
	#1, 2	#2, 3	–	–	–
⅝	#6, 8	#8	NT1-161G	–	SCR17-58-6808
	#3, 4	#4, 6	NT1-161L	–	SCR17-58-3446
	#1, 2	#2, 3	NT1-161V	–	SCR17-58-1223
	2/0, 1/0	1/0, #1	–	–	SCR17-58-2010*
	–	2/0	–		SCR17-58-0020*
¾	#6, 8	#8	NT1-181G	–	SCR17-34-6808
	#3, 4	#4, 6	NT1-181L	–	SCR17-34-3446
	#1, 2	#2, 3	NT1-181V	–	SCR17-34-1223
	2/0, 1/0	1/0, #1	–	–	SCR17-34-2010*
	–	2/0	–	–	SCR17-34-0020*
	–	4/0	–	–	SCR17-34-0040*
Size (in.)	**Solid**	**Stranded**	**TYPE NX(CR24)**		**TYPE CR24**
½	#6, 8	#8	NX1-141G	–	–
	#3, 4	#4, 6	NX1-141L	–	–
	#1, 2	#2, 3	–	–	–
⅝	#6, 8	#8	NX1-161G	–	SCR24-58-6808
	#3, 4	#4, 6	NX1-161L	–	SCR24-58-3446

* Future development.

Exothermic welding system

Sure Shot cross reference

Ground rod	Conductor size (AWG or kcmil)		Cadweld cat. no.	Thermoweld cat. no.	Furseweld cat. no.
Size (in.)	**Solid**	**Stranded**	**TYPE GR(CR1)**	**TYPE CR-1**	**TYPE CR1**
¾	#3, 4	#4, 6	NX1-181L	–	SCR24-34-3446
	#1, 2	#2, 3	NX1-181V	–	SCR24-34-1223
	2/0, 1/0	1/0, #1	–	–	SCR24-34-2010*
⅝	–	2/0	–	–	SCR24-34-0020*
	–	4/0	–	–	SCR24-34-0040*
Size (in.)	**Solid**	**Stranded**		**TYPE CR-25**	**TYPE CR25**
	#6, 8	#8	–	M-2006	SCR25-58-6808
	#3, 4	#4, 6	–	M-2007	SCR25-58-3446
	#1, 2	#2, 3	–	M-2008	SCR25-58-1223
¾	2/0, 1/0	1/0, #1	–	M-2023	SCR25-58-12010
	#6, 8	#8	–	M-2068	SCR25-34-6808
	#3, 4	#4, 6	–	M-2069	SCR25-34-3446

* Future development.

Exothermic welding system

Additional tables

Conductor properties

Size (AWG or kcmil)	Area mm²	Area Circular mils	Quantity	Conductors Diameter mm	Conductors Diameter in.	Stranding Diameter mm	Stranding Diameter in.	Overall Area mm²	Overall Area in.²	Direct-current resistance at 75 °C (167 °F) Copper Uncoated ohm/km	Copper Uncoated ohm/kFT	Copper Coated ohm/km	Copper Coated ohm/kFT	Aluminum ohm/km	Aluminum ohm/kFT
18	0.823	1,620	1	–	–	1.02	0.040	0.823	0.001	25.5	7.77	26.5	8.08	42.0	12.8
	0.823	1,620	7	0.39	0.015	1.16	0.046	1.06	0.002	26.1	7.95	27.7	8.45	42.8	13.1
16	1.31	2,580	1	–	–	1.29	0.051	1.31	0.002	16.0	4.89	16.7	5.08	26.4	8.05
	1.31	2,580	7	0.49	0.019	1.46	0.058	1.68	0.003	16.4	4.99	17.3	5.29	26.9	8.21
14	2.08	4,110	1	–	–	1.63	0.064	2.08	0.003	10.1	3.07	10.4	3.19	16.6	5.06
	2.08	4,110	7	0.62	0.024	1.85	0.073	2.68	0.004	10.3	3.14	10.7	3.26	16.9	5.17
12	3.31	6,530	1	–	–	2.05	0.081	3.31	0.005	6.34	1.93	6.57	2.01	10.45	3.18
	3.31	6,530	7	0.78	0.030	2.32	0.092	4.25	0.006	6.50	1.98	6.73	2.05	10.69	3.25
10	5.261	10,380	1	–	–	2.588	0.102	5.26	0.008	3.984	1.21	4.148	1.26	6.561	2.00
	5.261	10,380	7	0.98	0.038	2.95	0.116	6.76	0.011	4.070	1.24	4.226	1.29	6.679	2.04
8	8.367	16,510	1	–	–	3.264	0.128	8.37	0.013	2.506	0.764	2.579	0.786	4.125	1.26
	8.367	16,510	7	1.23	0.049	3.71	0.146	10.76	0.017	2.551	0.778	2.653	0.809	4.204	1.28
6	13.30	26,240	7	1.56	0.061	4.67	0.184	17.09	0.027	1.608	0.491	1.671	0.510	2.652	0.808
4	21.15	41,740	7	1.96	0.077	5.89	0.232	27.19	0.042	1.010	0.308	1.053	0.321	1.666	0.508
3	26.67	52,620	7	2.20	0.087	6.60	0.260	34.28	0.053	0.802	0.245	0.833	0.254	1.320	0.403
2	33.62	66,360	7	2.47	0.097	7.42	0.292	43.23	0.067	0.634	0.194	0.661	0.201	1.045	0.319
1	42.41	83,690	19	1.69	0.066	8.43	0.332	55.80	0.087	0.505	0.154	0.524	0.160	0.829	0.253
1/0	53.49	105,600	19	1.89	0.074	9.45	0.372	70.41	0.109	0.399	0.122	0.415	0.127	0.660	0.201
2/0	67.43	133,100	19	2.13	0.084	10.62	0.418	88.74	0.137	0.3170	0.0967	0.329	0.101	0.523	0.159
3/0	85.01	167,800	19	2.39	0.094	11.94	0.470	111.9	0.173	0.2512	0.0766	0.2610	0.0797	0.413	0.126
4/0	107.2	211,600	19	2.68	0.106	13.41	0.528	141.1	0.219	0.1996	0.0608	0.2050	0.0626	0.328	0.100
250	–	–	37	2.09	0.082	14.61	0.575	168	0.260	0.1687	0.0515	0.1753	0.0535	0.2778	0.0847
300	–	–	37	2.29	0.090	16.00	0.630	201	0.312	0.1409	0.0429	0.1463	0.0446	0.2318	0.0707
350	–	–	37	2.47	0.097	17.30	0.681	235	0.364	0.1205	0.0367	0.1252	0.0382	0.1984	0.0605
400	–	–	37	2.64	0.104	18.49	0.728	268	0.416	0.1053	0.0321	0.1084	0.0331	0.1737	0.0529
500	–	–	37	2.95	0.116	20.65	0.813	336	0.519	0.0845	0.0258	0.0869	0.0265	0.1391	0.0424
600	–	–	–	2.52	0.099	22.68	0.893	404	0.626	0.0704	0.0214	0.0732	0.0223	0.1159	0.0353
700	–	–	61	2.72	0.107	24.49	0.964	471	0.730	0.0603	0.0184	0.0622	0.0189	0.0994	0.0303
750	–	–	61	2.82	0.111	25.35	0.998	505	0.782	0.0563	0.0171	0.0579	0.0176	0.0927	0.0282
800	–	–	61	2.91	0.114	26.16	1.030	538	0.834	0.0528	0.0161	0.0544	0.0166	0.0868	0.0265
900	–	–	61	3.09	0.122	27.79	1.094	606	0.940	0.0470	0.0143	0.0481	0.0147	0.0770	0.0235
1000	–	–	61	3.25	0.128	29.26	1.152	673	1.042	0.0423	0.0129	0.0434	0.0132	0.0695	0.0212

FPN: The construction information is per NEMA WC8-1992 or ANSI/UL.
1581-1998. The resistance is calculated per National Bureau of Standards.
Handbook 100, dated 1966, and Handbook 109, dated 1972.
70–625 TABLES.

National Electrical Code, 2002 edition.

Exothermic welding system

Additional tables

Metric conductors

Wire size			# of	Strand	Diameter		Colour	Die
mm	AWG	Circ mils	strands	diameter	mm	Inch	code	code
10	8	19,73	1	3.57	3.57	0.140	Red	21
10	8	19,73	7	1.35	4.05	0.159		21
16	6	31,558	1	4.50	4.50	0.177	Blue	24
16	6	31,558	7	1.70	5.10	0.200		24
25	2	49,325	7	2.14	6.42	0.253	Gray	29
25	2	49,325	19	1.35	6.75	0.266	Brown	33
35	1	69,055	19	1.53	7.65	0.300	Green	37
50	1/0	98,65	19	1.78	8.90	0.350	Pink	42
70	2/0	138,11	19	2.14	10.70	0.421	Black	45
95	3/0	187,5	19	2.52	12.60	0.496	Orange	50
95	3/0	187,5	37	1.78	12.46	0.490		50
120	250	236,76	37	2.03	14.21	0.560	Purple	54
150	300	295,95	37	2.25	15.75	0.620	White	66
185	–	365	61	2.52	17.64	0.695	Red	71
240	500	473,5	61	2.25	20.25	0.797	Brown	87
300	–	591,9	61	2.52	22.68	0.893	Green	94
400	–	789,2	61	2.85	25.65	1.000	Black	106
400	–	789,2	91	2.36	25.96	1.022		106
500	–	986,5	61	3.20	28.80	1.134	–	125
500	–	986,5	91	2.65	29.15	1.148	–	–
630	–	1,243,000	127	2.52	32.76	1.290	–	–
800	–	1,578,400	127	2.85	37.05	1.459	–	–
1,000	–	1,973,000	127	3.20	41.60	1.638	–	–

Exothermic welding system

Additional tables

Table B.310.1 ampacities of two or three insulated conductors, rated 0 through 2000 V, within an overall covering (multiconductor cable), in raceway in free air based on ambient air temperature of 30 °C (86 °F)

Temperature rating of conductor

	60 °C (140 °F)	75 °C (167 °F)	90 °C (194 °F)	60 °C (140 °F)	75 °C (167 °F)	90 °C (194 °F)	
		Types RHW, THHW, THW, THWN, XHHW, ZW	Types THHN, THHW, THW-2, THWN-2, RHH, RWH-2, USE-2, XHHN, XHHW-2, ZW-2	TypeTW	Types RHW, THHW, THW, THWN, XHHW	Types THHN, THHW, THW-2, THWN-2, RHH, RWH-2, USE-2, XHHW, XHHW, XHHW-2, ZW-2	
Size (AWG or kcmil)	**Types TW, UF**	**Copper**			**Aluminum or copper-clad aluminum**		**Size (AWG or kcmil)**
14	16*	18*	21*	–	–	–	14
12	20*	24*	27*	16*	18*	21*	12
10	27*	33*	36*	21*	25*	28*	10
8	36	43	48	28	33	37	8
6	48	58	65	38	45	51	6
4	66	79	89	51	61	69	4
3	76	90	102	59	70	79	3
2	88	105	119	69	83	93	2
1	102	121	137	80	95	106	1
1/0	121	145	163	94	113	127	1/0
2/0	138	166	186	108	129	146	2/0
3/0	158	189	214	124	147	167	3/0
4/0	187	223	253	147	176	197	4/0
250	205	245	276	160	192	217	250
300	234	281	317	185	221	250	300
350	255	305	345	202	242	273	350
400	274	328	371	218	261	295	400
500	315	378	427	254	303	342	500
600	343	413	468	279	335	378	600
700	376	452	514	310	371	420	700
750	387	466	529	321	384	435	750
800	397	479	543	331	397	450	800
900	415	500	570	350	421	477	900
1,000	448	542	617	382	460	521	1,000

Correction factors

Ambient temp. (°C)			**For ambient temperatures other than 30 °C (86 °F), multiply the ampacities shown above by the appropriate factor shown below.**				**Ambient temp. (°C)**
21–25	1.08	1.05	1.04	1.08	1.05	1.04	70–77
26–30	1.00	1.00	1.00	1.00	1.00	1.00	79–86
31–35	0.91	0.94	0.96	0.91	0.94	0.96	88–95
36–40	0.82	0.88	0.91	0.82	0.88	0.91	97–104
41–45	0.71	0.82	0.87	0.71	0.82	0.87	106–113
46–50	0.58	0.75	0.82	0.58	0.75	0.82	115–122

*Unless otherwise specifically permitted elsewhere in this Code, the overcurrent protection for these conductor types shall not exceed 15 A for 14 AWG, 20 A for 12 AWG, and 30 A for 10 AWG copper; or 15 A for 12 AWG and 25 A for 10 AWG aluminum and copper-clad aluminum.

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Additional tables

Table C1 maximum number of conductors or fixture wires in electrical metallic tubing (EMT) (based on table 1, chapter 9)

Conductors

Type	Conductor size (AWG/ kcmil)	Metric designator (trade size) 16 (½)	21 (¾)	27 (1)	35 (1¼)	41 (1½)	53 (2)	63 (2½)	78 (3)	91 (3½)	103 (4)
RHH, RHW, RHW-2	14	4	7	11	20	27	46	80	120	157	201
	12	3	6	9	17	23	38	66	100	131	167
	10	2	5	8	13	18	30	53	81	105	135
	8	1	2	4	7	9	16	28	42	55	70
	6	1	1	3	5	8	13	22	34	44	56
	4	1	1	2	4	6	10	17	26	34	44
	3	1	1	1	4	5	9	15	23	30	38
	2	1	1	1	3	4	7	13	20	26	33
	1	0	1	1	1	3	5	9	13	17	22
	1/0	0	1	1	1	2	4	7	11	15	19
	2/0	0	1	1	1	2	4	6	10	13	17
	3/0	0	0	1	1	1	3	5	8	11	14
	4/0	0	0	1	1	1	3	5	7	9	12
	250	0	0	0	1	1	1	3	5	7	9
	300	0	0	0	1	1	1	3	5	6	8
	350	0	0	0	1	1	1	3	4	6	7
	400	0	0	0	1	1	1	2	4	5	7
	500	0	0	0	0	1	1	2	3	4	6
	600	0	0	0	0	1	1	1	3	4	5
	700	0	0	0	0	0	1	1	2	3	4
	750	0	0	0	0	0	1	1	2	3	4
	800	0	0	0	0	0	1	1	2	3	4
	900	0	0	0	0	0	1	1	1	3	3
	1,000	0	0	0	0	0	1	1	1	2	3
TW, THHW, THW, THW-2	14	8	15	25	43	58	96	168	254	332	424
	12	6	11	19	33	45	74	129	195	255	326
	10	5	8	14	24	33	55	96	145	190	243
	8	2	5	8	13	18	30	53	81	105	135
RHH*, RHW*, RHW-2*	14	6	10	6	28	39	64	112	169	221	282
	12	4	8	13	23	31	51	90	136	177	227
	10	3	6	10	18	24	40	70	106	138	177
	8	1	4	6	10	14	24	42	63	83	106

* Types RHH, RHW, and RHW-2 without outer covering.

Conductors

Type	Conductor size (AWG/ kcmil)	Metric designator (trade size) 16 (½)	21 (¾)	27 (1)	35 (1¼)	41 (1½)	53 (2)	63 (2½)	78 (3)	91 (3½)	103 (4)
RHH,* RHW,* RHW-2*, TW, THHW, THW, THW-2	6	1	3	4	8	11	18	32	48	63	81
	4	1	1	3	6	8	13	24	36	47	60
	3	1	1	3	5	7	12	20	31	40	52
	2	1	1	2	4	6	10	17	26	34	44
	1	1	1	1	3	4	7	12	18	24	31
	1/0	0	1	1	2	3	6	10	16	20	26
	2/0	0	1	1	1	3	5	9	13	17	22
	3/0	0	1	1	1	2	4	7	11	15	19
	4/0	0	0	1	1	1	3	6	9	12	16
	250	0	0	1	1	1	3	5	7	10	13
	300	0	0	1	1	1	2	4	6	8	11
	350	0	0	0	1	1	1	4	6	7	10
	400	0	0	0	1	1	1	3	5	7	9
	500	0	0	0	1	1	1	3	4	6	7
	600	0	0	0	1	1	1	2	3	4	6
	700	0	0	0	0	1	1	1	3	4	5
	750	0	0	0	0	1	1	1	3	4	5
	800	0	0	0	0	1	1	1	3	3	5
	900	0	0	0	0	0	1	1	2	3	4
	1,000	0	0	0	0	0	1	1	2	3	4
THHN, THWN, THWN-2	14	12	22	35	61	84	138	241	364	476	608
	12	9	16	26	45	61	101	176	266	347	443
	10	5	10	16	28	38	63	111	167	219	279
	8	3	6	9	16	22	36	64	96	126	161
	6	2	4	7	12	16	26	46	69	91	116
	4	1	2	4	7	10	16	28	43	56	71
	3	1	1	3	6	8	13	24	36	47	60
	2	1	1	3	5	7	11	20	30	40	51
	1	1	1	1	4	5	8	15	22	29	37
	1/0	1	1	1	3	4	7	12	19	25	32
	2/0	0	1	1	2	3	6	10	16	20	26
	3/0	0	1	1	1	3	5	8	13	17	22
	4/0	0	1	1	1	2	4	7	11	14	18
	250	0	0	1	1	1	3	6	9	11	15
	300	0	0	1	1	1	3	5	7	10	13
	350	0	0	1	1	1	2	4	6	9	11
	400	0	0	0	1	1	1	4	6	8	10
	500	0	0	0	1	1	1	3	5	6	8
	600	0	0	0	1	1	1	2	4	5	7
	700	0	0	0	1	1	1	2	3	4	6
	750	0	0	0	0	1	1	1	3	4	5
	800	0	0	0	0	1	1	1	3	4	5
	900	0	0	0	0	1	1	1	3	3	4
	1,000	0	0	0	0	1	1	1	2	3	4

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* Types RHH, RHW, and RHW-2 without outer covering.

Exothermic welding system

Additional tables

Table C4 maximum number of conductors or fixture wires in intermediate metal conduit (IMC) (based on table 1, chapter 9)

Conductors											
		Metric designator (trade size)									
Type	Conductor size (AWG/ kcmil)	16 (½)	21 (¾)	27 (1)	35 (1¼)	41 (1½)	53 (2)	63 (2½)	78 (3)	91 (3½)	103 (4)
RHH, RHW, RHW-2	14	4	8	13	22	30	49	70	108	144	186
	12	4	6	11	18	25	41	58	89	120	154
RHH, RHW, RHW-2	10	3	5	8	15	20	33	47	72	97	124
	8	1	3	4	8	10	17	24	38	50	65
	6	1	1	3	6	8	14	19	30	40	52
	4	1	1	3	5	6	11	15	23	31	41
	3	1	1	2	4	6	9	13	21	28	36
	2	1	1	1	3	5	8	11	18	24	31
	1	0	1	1	2	3	5	7	12	16	20
	1/0	0	1	1	1	3	4	6	10	14	18
	2/0	0	1	1	1	2	4	6	9	12	15
	3/0	0	0	1	1	1	3	5	7	10	13
	4/0	0	0	1	1	1	3	4	6	9	11
	250	0	0	1	1	1	1	3	5	6	8
	300	0	0	0	1	1	1	3	4	6	7
	350	0	0	0	1	1	1	2	4	5	7
	400	0	0	0	1	1	1	2	3	5	6
	500	0	0	0	1	1	1	1	3	4	5
	600	0	0	0	0	1	1	1	2	3	4
	700	0	0	0	0	1	1	1	2	3	4
	750	0	0	0	0	1	1	1	1	3	4
	800	0	0	0	0	0	1	1	1	3	3
	900	0	0	0	0	0	1	1	1	2	3
	1,000	0	0	0	0	0	1	1	1	2	3
	1,250	0	0	0	0	0	1	1	1	1	2
	1,500	0	0	0	0	0	0	1	1	1	1
	1,750	0	0	0	0	0	0	1	1	1	1
	2,000	0	0	0	0	0	0	1	1	1	1
TW, THHW, THW, THW-2	14	10	17	27	47	64	104	147	228	304	392
	12	7	13	21	36	49	80	113	175	234	301
	10	5	9	15	27	36	59	84	130	174	224
	8	3	5	8	15	20	33	47	72	97	124
RHH,* RHW,* RHW-2	14	6	11	18	31	42	69	98	151	202	261
RHH,* RHW,* RHW-2*	12	5	9	14	25	34	56	79	122	163	209
	10	4	7	11	19	26	43	61	95	127	163
RHH,* RHW,* RHW-2*	8	2	4	7	12	16	26	37	57	76	98
RHH,* RHW,* RHW-2*	6	1	3	5	9	12	20	28	43	58	75
	4	1	2	4	6	9	15	21	32	43	56

* Types RHH, RHW, and RHW-2 without outer covering.

Conductors											
		Metric designator (trade size)									
Type	Conductor size (AWG/ kcmil)	16 (½)	21 (¾)	27 (1)	35 (1¼)	41 (1½)	53 (2)	63 (2½)	78 (3)	91 (3½)	103 (4)
TW, THHW, THW, THW-2	3	1	1	3	6	8	13	18	28	37	48
	2	1	1	3	5	6	11	15	23	31	41
	1	1	1	1	3	4	7	11	16	22	28
	1/0	1	1	1	3	4	6	9	14	19	24
	2/0	0	1	1	2	3	5	8	12	16	20
	3/0	0	1	1	1	3	4	6	10	13	17
	4/0	0	1	1	1	2	4	5	8	11	14
	250	0	0	1	1	1	3	4	7	9	12
	300	0	0	1	1	1	2	4	6	8	10
	350	0	0	1	1	1	2	3	5	7	9
	400	0	0	0	1	1	1	3	4	6	8
	500	0	0	0	1	1	1	2	4	5	7
	600	0	0	0	1	1	1	1	3	4	5
	700	0	0	0	0	1	1	1	3	4	5
	750	0	0	0	0	1	1	1	2	3	4
	800	0	0	0	0	1	1	1	2	3	4
	900	0	0	0	0	1	1	1	2	3	4
	1,000	0	0	0	0	0	1	1	1	3	3
THHN, THWN, THWN-2	14	14	24	39	68	91	149	211	326	436	562
	12	10	17	29	49	67	109	154	238	318	410
	10	6	11	18	31	42	68	97	150	200	258
	8	3	6	10	18	24	39	56	86	115	149
	6	2	4	7	13	17	28	40	62	83	107
	4	1	3	4	8	10	17	25	38	51	66
	3	1	2	4	6	9	15	21	32	43	56
	2	1	1	3	5	7	12	17	27	36	47
	1	1	1	2	4	5	9	13	20	27	35
	1/0	1	1	1	3	4	8	11	17	23	29
	2/0	1	1	1	3	4	6	9	14	19	24
	3/0	0	1	1	2	3	5	7	12	16	20
	4/0	0	1	1	1	2	4	6	9	13	17
	250	0	0	1	1	1	3	5	8	10	13
	300	0	0	1	1	1	3	4	7	9	12
	350	0	0	1	1	1	2	4	6	8	10
	400	0	0	1	1	1	2	3	5	7	9
	500	0	0	0	1	1	1	3	4	6	7
	600	0	0	0	1	1	1	2	3	5	6
	700	0	0	0	1	1	1	1	3	4	5
	750	0	0	0	1	1	1	1	3	4	5
	800	0	0	0	0	1	1	1	3	4	5
	900	0	0	0	0	1	1	1	2	3	4
	1,000	0	0	0	0	1	1	1	2	3	4

Note: This table is for concentric stranded conductors only.
For compact stranded conductors, Table C4(A) should be used.
*Types RHH, RHW, and RHW-2 without outer covering.

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Additional tables

Table C8 maximum number of conductors or fixture wires in rigid metal conduit (RMC) (based on table 1, chapter 9)

Conductors													
		Metric designator (trade size)											
Type	Conductor Size (AWG/ kcmil)	16 (½)	21 (¾)	27 (1)	35 (1¼)	41 (1½)	53 (2)	63 (2½)	78 (3)	91 (3½)	103 (4)	129 (5)	155 (6)
RHH, RHW, RHW-2	14	4	7	12	21	28	46	66	102	136	176	276	398
	12	3	6	10	17	23	38	55	85	113	146	229	330
	10	3	5	8	14	19	31	44	68	91	118	185	267
	8	1	2	4	7	10	16	23	36	48	61	97	139
	6	1	1	3	6	8	13	18	29	38	49	77	112
	4	1	1	2	4	6	10	14	22	30	38	60	87
	3	1	1	2	4	5	9	12	19	26	34	53	76
	2	1	1	1	3	4	7	11	17	23	29	46	66
	1	0	1	1	1	3	5	7	11	15	19	30	44
	1/0	0	1	1	1	2	4	6	10	13	17	26	38
	2/0	0	1	1	1	2	4	5	8	11	14	23	33
	3/0	0	0	1	1	1	3	4	7	10	12	20	28
	4/0	0	0	1	1	1	3	4	6	8	11	17	24
	250	0	0	0	1	1	1	3	4	6	8	13	18
	300	0	0	0	1	1	1	2	4	5	7	11	16
	350	0	0	0	1	1	1	2	4	5	6	10	15
	400	0	0	0	1	1	1	1	3	4	6	9	13
	500	0	0	0	1	1	1	1	3	4	5	8	11
	600	0	0	0	0	1	1	1	2	3	4	6	9
	700	0	0	0	0	1	1	1	1	3	4	6	8
	750	0	0	0	0	0	1	1	1	3	3	5	8
	800	0	0	0	0	0	1	1	1	2	3	5	7
	900	0	0	0	0	0	1	1	1	2	3	5	7
	1,000	0	0	0	0	0	1	1	1	1	3	4	6
TW, THHW, THW, THW-2	14	9	15	25	44	59	98	140	216	288	370	581	839
	12	7	12	19	33	45	75	107	165	221	284	446	644
	10	5	9	14	25	34	56	80	123	164	212	332	480
	8	3	5	8	14	19	31	44	68	91	118	185	267
RHH,* RHW,* RHW-2*	14	6	10	17	29	39	65	93	143	191	246	387	558
RHH,* RHW,* RHW-2*	12	5	8	13	23	32	52	75	115	154	198	311	448
	10	3	6	10	18	25	41	58	90	120	154	242	350
RHH,* RHW,* RHW-2*	8	1	4	6	11	15	24	35	54	72	92	145	209

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Additional tables

Table C8 maximum number of conductors or fixture wires in rigid metal conduit (RMC) (based on table 1, chapter 9)

Conductors													
	Conductor	Metric designator (trade size)											
Type	Size (AWG/ kcmil)	16 (½)	21 (¾)	27 (1)	35 (1¼)	41 (1½)	53 (2)	63 (2½)	78 (3)	91 (3½)	103 (4)	129 (5)	155 (6)
RHH,* RHW,* RHW-2*, TW, THHW, THW, THW-2	6	1	3	5	8	11	18	27	41	55	71	111	160
	4	1	1	3	6	8	14	20	31	41	53	83	120
	3	1	1	3	5	7	12	17	26	35	45	71	103
	2	1	1	2	4	6	10	14	22	30	38	60	87
	1	1	1	1	3	4	7	10	15	21	27	42	61
	1/0	0	1	1	2	3	6	8	13	18	23	36	52
	2/0	0	1	1	2	3	5	7	11	15	19	31	44
	3/0	0	1	1	1	2	4	6	9	13	16	26	37
	4/0	0	0	1	1	1	3	5	8	10	14	21	31
	250	0	0	1	1	1	3	4	6	8	11	17	25
	300	0	0	1	1	1	2	3	5	7	9	15	22
	350	0	0	0	1	1	1	3	5	6	8	13	19
	400	0	0	0	1	1	1	3	4	6	7	12	17
	500	0	0	0	1	1	1	2	3	5	6	10	14
	600	0	0	0	1	1	1	1	3	4	5	8	12
	700	0	0	0	0	1	1	1	2	3	4	7	10
	750	0	0	0	0	1	1	1	2	3	4	7	10
	800	0	0	0	0	1	1	1	2	3	4	6	9
	900	0	0	0	0	1	1	1	1	3	4	6	8
	1,000	0	0	0	0	0	1	1	1	2	3	5	8
THHN, THWN, THWN-2	14	13	22	36	63	85	140	200	309	412	531	833	1,202
	12	9	16	26	46	62	102	146	225	301	387	608	877
	10	6	10	17	29	39	64	92	142	189	244	383	552
	8	3	6	9	16	22	37	53	82	109	140	221	318
	6	2	4	7	12	16	27	38	59	79	101	159	230
	4	1	2	4	7	10	16	23	36	48	62	98	141
	3	1	1	3	6	8	14	20	31	41	53	83	120
	2	1	1	3	5	7	11	17	26	34	44	70	100
	1	1	1	1	4	5	8	12	19	25	33	51	74
	1/0	1	1	1	3	4	7	10	16	21	27	43	63
	2/0	0	1	1	2	3	6	8	13	18	23	36	52
	3/0	0	1	1	1	3	5	7	11	15	19	30	43
	4/0	0	1	1	1	2	4	6	9	12	16	25	36
	250	0	0	1	1	1	3	5	7	10	13	20	29
	300	0	0	1	1	1	3	4	6	8	11	17	25
	350	0	0	1	1	1	2	3	5	7	10	15	22
	400	0	0	1	1	1	2	3	5	7	8	13	20
	500	0	0	0	1	1	1	2	4	5	7	11	16
	600	0	0	0	1	1	1	1	3	4	6	9	13
	700	0	0	0	1	1	1	1	3	4	5	8	11
	750	0	0	0	0	1	1	1	3	4	5	7	11
	800	0	0	0	0	1	1	1	2	3	4	7	10
	900	0	0	0	0	1	1	1	2	3	4	6	9
	1,000	0	0	0	0	1	1	1	1	3	4	6	8

Note: This table is for concentric stranded conductors only.
For compact stranded conductors, Table C8(A) should be used.
*Types RHH, RHW, and RHW-2 without outer covering.

Competitive cross reference

Figure 6 — Compression ground tap connectors

EZGround	Burndy	Ilsco
54855	YGHP29C2	GGC-2
54860	YGHP29C26	GGC-3
54865	YGHP29C29	GGC-4
54875	YGHP2C2	GGC-1
54885	YGHP34C2	GGC-5
54890	YGHP34C26	GGC-6
54895	YGHP34C29	GGC-7
54900	YGHP34C34	GGC-8

Figure 6 to figure 6 — Compression ground grid connectors

EZGround	Burndy	Ilsco
54855L	YGL2C2	–
54855LR12	YGLR29C12	–
54865L	YGL29C2	GGA-2
54865LR58	YGLR29C58	–
54875L	YGL29C29	GGA-3
54875LR34	YGLR29C34	–
54885L	YGL34C2	GGA-4
54885LR12	YGLR34C12	–
54895L	YGL34C29	GGA-5
54895LR58	YGLR34C58	–
54900L	YGL34C34	GGA-6
54900LR34	YGLR34C34	–
54910LR100	YGLR29C100	–
54920LR100	YGLR34C100	–

C-crimp series BC

EZGround	Burndy	Ilsco
BC202	YC26C2	–
BC2020-BB	YC26C26	–
BC22	YC2C2	ULT-7-Z
BC24	YC2C4	ULT-6-Z
BC402	YC28C2	–
BC4020	YC28C26	–
BC4040	YC28C28	ULT-12-Z
BC44	YC4C4	ULT-5-Z
BC46-BB	YC4C6	ULT-4-Z
BC48	YC4C8	–

C-taps

EZ Ground	Burndy	Ilsco
CTG250	GCM28CG3	–

Type SP — Service post connectors

Blackburn	Penn Union	Burndy	Ilsco/Utilco	Kupler
SP0DL	SCS-0A1	K2C15B1	–	–
SP1DL	SCS-1A1	K2C17B1	–	–
SP2DL	SCS-2A1	K2C20B1	–	–
SP3DL	SCS-3A1	K2C22B1	–	–
SP4DL	SCS-4A1	K2C23B1	–	–
SP5DL	SCS-5A1	K2C25B1	–	–
SP6DL	SCS-6A1	K2C26B1	–	–
SP8DL	SCS-8A1	K2C28B1	–	–
SP9DL	SCS-9A1	K2C31B1	–	–
SP10DL	SCS-10A1	K2C34B1	–	–
SP0SL	SSS-0A1	KC15B1	–	–
SP1SL	SSS-1A1	KC17B1	–	–
SP2SL	SSS-2A1	KC20B1	–	–
SP3SL	SSS-3A1	KC22B1	–	–
SP4SL	SSS-4A1	KC23B1	–	–
SP5SL	SSS-5A1	KC25B1	–	–
SP6SL	SSS-6A1	KC26B1	–	–
SP8SL	SSS-8A1	KC28B1	–	–
SP9SL	SSS-9A1	KC31B1	–	–
SP10SL	SSS-10A1	KC34B1	–	–

Flexible braids

Blackburn	Penn Union	Burndy	Ilsco/ Utilco	Penn-Union	Anderson	Dossert	Gedney
FB2D12	–	B2D12N	–	FXB2A-12-Q	–	–	–
FB2E12	–	B2E12N		FXB2C-12N-Q	–	–	–
FB2F12	–	B2F12N		FXB2D-12N-Q	–	–	–
FB3D12	–	B3D12N		FXB3A-12-Q	–	–	–
FB3E12	–	B3E12N		FXB3C-12N-Q	–	–	–
FB3F12	–	B3F12N		–	–	–	–
FB3XD12	–	B4D12N		–	–	–	–
FB4E12	–	B4E12N		FXB4C-12N-Q	–	–	–
FB4F12	–	B4F12N		FXB4D-12N-Q	–	–	–
FBD12	–	BD12N		FXBA-12-Q	–	–	–
FBD18	–	–		FXBA-18-Q	–	–	–
FBD24	–	–		FXBA-24-Q	–	–	–
FBE12	–	BE12N		FXBB-12N-Q	–	–	–
FBF12	–	BF12N		FXBD-12N-Q	–	–	–
FBG12	–	–		FXBE-12N-Q	–	–	–
FBG18	–	–		FXBE-18S-Q	–	–	–
FBG24	–	–		FXBE-24S-Q	–	–	–

Competitive cross reference

Ground plates							
EZGround	**Burndy**	–	–	–	–	–	–
GP2250-2	YGF29-2N						
GP2250-4	YGF29-4N						
GP250500-2	YGF34-2N						
GP250500-4	YGF34-4N						
Figure 8 — Compression tap connectors for copper ground rods							
EZGround	**Burndy**	–	–	–	–	–	–
GR1-202	YGHR26C100						
GR12-202	YGHR26C12						
GR12-40250	YGHR29C12						
GR1-300500	YGHR34C100						
GR1-40250	YGHR29C100						
GR34-202	YGHR26C34						
GR34-300500	YGHR34C34						
GR34-40250	YGHR29C34						
GR58-202	YGHR26C58						
GR58-300500	YGHR34C58						
GR58-40250	YGHR29C58						
Type TBGS — Structural grounding studs							
EZGround	**Burndy**	–	–	–	–	–	–
TBGS14	GSTUD14HY						
TBGS34	GSTUD34HY						
TBGS38	GSTUD38HY						
TBGS58	GSTUD916HY						
Type JAB — Ground rod clamps							
Blackburn	**Penn Union**	**Burndy**	**Ilsco**	**Eritech**	**Anderson**	**Joslyn**	**Dossert**
JAB12	CAB-1	GRC12	CGRC48	HDC12	–	J8391AB	GNA50
JAB58	CAB-2	GRC58	CGRC58	–	–	J8392AB	GNA62
JAB34	CAB-3	–	–	HDC34	–	J8393AB	GNA75
JAB34C	–	GRC3426	CGRC68	–	–	–	–
JAB1	–	–	–	–	–	–	–
JAB12H	CAB-1	–	–	HDC12	GC-103-01	J8491AB	GN-50
JAB58H	CAB-2	–	–	HDC58R	GC-103-02	A8393AB	GN-62
JAB34H	CAB-3	–	–	HDC34	GC-103-03	J8493AB	GN-75
JAB1H	–	–	–	–	–	–	–
Type G — Budget line ground rod clamps							
Blackburn	**Penn Union**	**Burndy**	**Ilsco**	**Eritech**	**Anderson**	**Joslyn**	**Dossert**
G3	CAB-1	GRC12	–	CP38	–	–	–
G4	CEB-1	GRC-12	GRC-48	CP12	GC-4	–	GNL50
G5	CEB-2	GRC-58	GRC-58	CP58	GC-5	–	GNL62
G6	CEB-3	GRC34	GRC-68	CP34	GC-6	–	GNL75

Blackburn and EZGround are registered trademarks for ABB.
All other trademarks are the property of their respective owners.

Competitive cross reference

Type GUV — U-bolt clamps

Blackburn	Penn Union	Burndy	Ilsco/Utilco	Homac®	Anderson	Dossert	Gedney
GUV4021	–	GAR2226	–	–	–	–	–
GUV4025	–	GAR2229	–	–	–	–	–
GUV584	–	GAR644C	–	–	–	–	–
GUV5821	–	GAR6426	–	–	–	–	–
GUV5825	–	GAR6429	–	–	–	–	–
GUV784	GPL-8	GAR144C	–	–	–	–	–
GUV7821	GPL-9	GAR1426	–	–	–	–	–
GUV7825	GPL-10	GAR1429	–	–	–	–	–
GUV1184	GPL-14	GAR154C	–	–	–	–	–
GUV11821	GPL-15	GAR1526	–	–	–	–	–
GUV1384	GPL-20	GAR164C	–	–	–	–	–
GUV13821	–	GAR1626	–	–	–	–	–
GUV13825	GPL-22	GAR1629	–	–	–	–	–
GUV1584	GPL-26	GAR174C	–	–	–	–	–
GUV15821	GPL-27	GAR1726	–	–	–	–	–
GUV15825	GPL-28	GAR1729	–	–	–	–	–
GUV204	GPL-32	GAR184C	–	–	–	–	–
GUV2021	GPL-33	GAR1826	–	–	–	–	–
GUV2025	GPL-34	GAR1829	–	–	–	–	–
GUV21221	GPL-39	GAR1926	–	–	–	–	–
GUV21225	GPL-40	GAR1929	–	–	–	–	–
GUV3021	GPL-45	GAR2026	–	–	–	–	–
GUV3025	GPL-46	GAR2029	–	–	–	–	–
GUV31221	GPL-51	GAR2126	–	–	–	–	–

Type GTC — Tower ground clamps

Blackburn	Penn Union	Burndy	Ilsco/Utilco	Homac	Anderson	Dossert	Gedney
GTC13	GMS-2	GBM26	–	–	GC140-01	GFM-13	–
GTC14	GMS-3	GBM29	–	–	GC-140-02	GFM-25	–
GTC23	GM-2	GB26	–	–	GC141-01	GF13	–
GTC24	GM-3	GB29	–	–	–	GF25	–

Type TTC — Transformer tank ground connectors

Blackburn	Penn Union	Burndy	Ilsco/Utilco	Homac	Anderson	Dossert	Eritech
TTC2	HGSE-020	EQC632C	–	–	GTCL-34A	–	TGC210
TTC3	HGSE-C1	–	–	–	GTCL-23A	TGC8-50	–
TTC4	–	–	–	–	–	–	–
TTC2P	–	–	–	–	–	–	–
TTC3P	GSE-C1TN	–	–	–	GTC23A-TP	TGC8-50SN	–
TTC4P	–	–	–	–	–	–	–

Type GP — Copper pole bottom ground plates

Blackburn	Penn Union	Burndy	Isco/Utilco	Homac	Anderson	Dossert	Eritech
GP100	–	–	–	5575	–	–	EGP100

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All other trademarks are the property of their respective owners.

Replacement ABB catalogue number

Old ABB cat. no.	New cat. no.
BP4UCR	TBM6UCR-LI
BPI42300CR	TBM62CR-LI
BPLT14BSR	TBM14CR-LI
BPLT15BSCR	TBM15CR-LI
BPLT58BSCT	TBM58PCTS-LI
BPLT62BSCR	TBM62PCR-LI
BPLT6500BSCR	TBM6PCR-LI
BPLT6BSCR	TBM6PCR-LI
HMC-5630	HMC5630-LI
HMC5750	HMC5750-LI

Replacement ABB catalogue number

Old ABB cat. no.	New cat. no.
TBM14BSCR	TBM14CR-LI
TBM15BSCR	TBM15CR-LI
TBM4BB	TBM45BB and TBM45S
TBM54BSCT	TBM54CT-LI
TBM54BSCTS	TBM54CTS-LI
TBM58BSCT	TBM58PCTS-LI
TBM61520BSCR	BPLT62BSCR
TBM62BSCR	TBM62PCR-LI
TBMODBSCR	TBM6UNICR-LI

E

Blackburn®/Color-Keyed®/Homac® - Tools, dies and kits

E

Blackburn/Color-Keyed/Homac - Tools, dies and kits

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Warranty and service providers

Warranty and service providers
ABB Tool Service has a staff of highly trained, experienced and dedicated technicians and application specialists to support our customers in every aspect of their tooling needs.

The Tool Service department is capable of repairing all ABB tools, from small tools to large hydraulic pumps and crimping heads. The department is also responsible for warranty repairs and will supply a loaner tool when necessary.

For customers capable of repairing their own tools, Tool Service also sells the component parts. In addition, the department can provide the technical data and information required.

Other services include the calibration or certification of tools to meet applicable standards, including “in house” certification of tools for larger OEMs in conjunction with the ISO 9000 programs.

Corporate ABB Tool Service
8735 Hamilton Road, Southaven, MS 38671
Tel.: 662-342-1545 ext. 3930
1-800-284-8665
Fax: 662-393-3929

Centre de réparation hydraulique Uptown Ltée
1213 rue Tellier
Laval, Quebec H7C 2H1
Tel.: 450-728-1818
Fax: 450-667-8335

Huskie Repair Depots for battery-operated tools are:

INNOVA Quebec
1040 Boulevard Industriel
Granby, Quebec J2J 1A4
Tel.: 450-777-1240 ext.: 230
Fax: 450-372-9936
yfabre@xtirpa.com

PEFCO Ontario
1734 Finch Avenue
Pickering, Ontario L1V 1K4
Tel.: 905-427-9294
Fax: 904-427-0540
jmasonpefco@sympatico.ca

LINESTAR Utility Supply (4 branches)

British Columbia
17949 Roan Place
Surrey, British Columbia V3S 5K1
Tel.: 604-594-2701
Toll free: 1-866-594-2701
Fax: 604-594-2751
sales@linstar.ca

Alberta
1 – 1381 Hastings Crescent SE
Calgary, Alberta T2G 4C8
Tel.: 403-243-1900
Toll free: 1-877-248-6657
Fax: 403-243-2063
salesab@linstar.ca

Manitoba/Saskatchewan
1103 Keewatin Street
Winnipeg, Manitoba R2X 2Z3
Tel.: 204-783-9771
Fax: 204-783-8951

Ontario
Unit 2 – 7015 Ordan Dr.
Mississauga, Ontario L5T 1Y2
Tel.: 905-564-5344
Toll free: 1-844-564-5344
Fax: 905-564-5354

Note: For CEMBRE tools, please contact your sales representative.

Warranty and service providers

Limited warranty
ABB manufactures its tools to be free of defects in material and workmanship for the time specified below. Should any defect occur during the specified time period, ABB will repair or replace the tool at its option.

Limitations and exclusions
This warranty is in lieu of all other representations and expressed and implied warranties (including the implied warranties of merchantability and fitness for use) and under no circumstances shall ABB be liable for any incidental or consequential property damages or losses. This warranty is non-transferable and replacement of defective parts must be made at a facility designated by the manufacturer.

90 days
- Electronic alloy operated tools (printers, testers)
- Individual dies

1 year
- Pneumatic tools
- Cable cutters, strippers
- ID systems
- All NI-MH battery operated tools (Cembre)

2 years
- Mechanical hand tools with ratchet or Shure Stake® mechanism
- Hydraulic pumps (battery-operated tools included)

5 years
- Hydraulic tools (self-contained and remote heads)
- All LI-Ion battery-operated tools (Huskie)

Direct all inquiries to the ABB regional sales office in your area.

Manual compression tools

Creates diamond-style crimp

TBM45S crimp tool

- Wide range of #8 to #2 for copper lugs and #10 to #6 for aluminum lugs
- Each die has die code embossing
- Shure Stake mechanism ensures a properly completed crimp each time
- Colour-coded die wheel rotates into position for proper die nest adjustment
- Also installs up to green colour-coded C-Taps and MD2 series motor disconnects
- Requires two crimps per connector

Cat no.	Description	Pkg. qty.
TBM45S	Crimp tool with Shure Stake mechanism for #8–#2 copper and #10–#6 aluminum lugs	1

—
02
Crimp-Assist™ foot provides stability when work suface leverage is needed to crimp larger connectors.

—
01

—
02

	Conductor size					
	#10 Red	#8 Red	#6 Blue	#4 Grey	#2 Brown	#1 Green
Copper connectors						
One hole, short	–	54104	54134	54138	54107	–
	–	54130	54105	54106	54142	–
	–	54131	54135	54139	54143	–
	–	54132	54136	54140	54145	–
	–	54104	54205	54206	54207	–
Splice, short	–	54504	54505	54506	54507	–
One hole, long	–	54930BE	54905BE	54906BE	54942BE	–
Two hole, long	–	54850BE	54852BE	54854BE	54856BE	–
Splice, long	–	54804	54805	54806	54807	–
Cable joints	–	–	54610	54615	54620	–
Narrow tongue	–	–	–	55112	55116	–
C-taps	–	54705	54710	54715	54720	54725
Motor disconnects	–	MD8 series	MD6 series	MD4 series	MD2 series	–
Aluminum connectors						
One hole	60096 60096 60099	60101 60102 60103 60104	60106 60107 60108 60109	–	–	–
Splices	60500	60501	60507	–	–	–
Bi-pins	–	61905A	61910A	–	–	–
Equipment lugs	–	61102	61107	–	–	–

Manual compression tools

Creates indent-style crimp

TBM4S dieless crimp tool

- Wide range of #8 to 250 kcmil for copper lugs and #8 to 4/0 for aluminum lugs
- Adjustable indenter eliminates the need to buy and maintain numerous individual dies
- Shure Stake mechanism ensures a properly completed crimp each time
- Easily adjusted by turning knurled adjusting wheel and aligning pointer with proper terminal size
- Dieless adjustable crimper for Color-Keyed compression connectors

Cat no.	Description	Pkg. qty.
TBM4S	Dieless crimp tool with Shure Stake mechanism for #8–250 kcmil copper and #8–4/0 aluminum lugs	1

Creates diamond-style crimp

TBM5 and TBM5S* crimp tools

- Wide range of #8 to 250 kcmil for copper and #10 to 4/0 for aluminum lugs and splices
- Also install C-taps from 54705 to 54750
- Shure Stake mechanism ensures a properly completed crimp each time (only in TBM5S)
- Include colour-coded, die-code-embossed installation dies

Cat no.	Colour code	Al	Cu	Die cat. no.	Pkg. qty.
TBM5 or TBM5S*	Red	10	8	13454	1
	Blue	8	6	13454	1
	Grey	6	4	13454	1
	Brown	–	2	13454	1
	Green	4	1	13455	1
	Pink	2	1/0	13455	1
	Black	–	2/0	13455	1
	Orange	–	3/0	13455	1
	Purple	–	4/0	13456	1
	Yellow	–	250	13456	1
	Gold	1	–	13457	1
	Tan	1/0	–	13457	1
	Olive	2/0	–	13457	1
	Ruby	3/0	–	13457	1
	White	4/0	–	13485	1

* TBM5S includes shure steak mechanism; TBM5 does not.

Carrying cases for TBM5 and TBM5S

Cat no.	Description	Pkg. qty.
295-31365M	Steel carrying case for TBM5, TBM5S, TBM6 and TBM6S	1
295-31365	Plastic carrying case for TBM5, TBM5S, TBM6 and TBM6S	1

Manual compression tools

TBM6 and TBM6S* crimp tools

- Wide range of #8 thru 500 kcmil for copper lugs, splices and taps and #10 thru 350 kcmil for aluminum lugs and splices
- Also install 63105 through 63140 orange, green and blue H-Taps
- Shure Stake mechanism ensures a properly completed crimp each time (only in TBM6S)
- Complete with plastic carrying case and wire brush
- No dies included

Cat no.	Colour code	Al	Cu	Upper die cat. no.	Lower die cat. no.	Pkg. qty.
TBM6 or TBM6S*	Red	10	8	13475	13477	1
	Blue	8	6	13475	13477	1
	Grey	6	4	13472	13476	1
	Brown	–	2	13474	13477	1
	Green	4	1	13474	13477	1
	Pink	2	1/0	13475	13477	1
	Black	–	2/0	13474	13477	1
	Orange	–	3/0	13474	13477	1
	Purple	–	4/0	13475	13477	1
	Yellow	–	250	13473	13476	1
	Gold	1	–	13474	13477	1
	Tan	1/0	–	13474	13477	1
	Olive	2/0	–	13475	13477	1
	Ruby	3/0	–	13473	13476	1
	White	4/0	–	13473	13476	1
	Red	250	350	13472	13476	1
	Blue	300	400	13472	13476	1
	Brown	–	500	13478	13478	1

* TBM6S includes shure steak mechanism; TBM6 does not.

Carrying cases for TBM6 and TBM6S

Cat no.	Description	Pkg. qty.
295-31365M	Steel carrying case for TBM5, TBM5S, TBM6 and TBM6S	1
295-31365	Plastic carrying case for TBM5, TBM5S, TBM6 and TBM6S	1

Manual compression tools

Creates diamond-style crimp

TBM8 and TBM8S* crimp tools

- Install coded copper lugs and connectors #8 through 500 kcmil
- Install aluminum lugs and connectors #10 through 350 kcmil
- Shure Stake mechanism ensures positive compression (only in TBM8S)
- Included dies are colour-coded and provide die-code embossing for easy installation and inspection
- Install all coded copper compression joints and a selection of small C-Taps
- Complete with installing dies and wire brush in plastic carrying case

Cat no.	Colour code	Al	Cu	Lower die cat. no.	Pkg. qty.
TBM8 or TBM8S*	Red	10	8	13461	1
	Blue	8	6	13461	1
	Grey	6	4	13461	1
	Brown	–	2	13461	1
	Green	4	1	13462	1
	Pink	2	1/0	13462	1
	Black	–	2/0	13462	1
	Orange	–	3/0	13462	1
	Purple	–	4/0	13463	1
	Yellow	–	250	13463	1
	Gold	1	–	13464	1
	Tan	1/0	–	13464	1
	Olive	2/0	–	13464	1
	Ruby	3/0	–	13464	1
	White	4/0	300	13465	1
	Red	250	350	13466	1
	Blue	300	400	13467	1
	Brown	350	500	13468	1

* TBM8S includes shure steak mechanism; TBM8 does not.

TBM840 crimp tool

- Wide range of #8 to 4/0 for copper connectors and splices
- Installs lugs and splices series 54000 and 58000
- 8-position colour-coded rotatable die
- Comfort hand grip
- Die index embossed for permanent inspectability
- Overall length: 23¾ in.
- Handle length: 16½ in.
- Weight: 8.8 lb

Cat no.	Description	Pkg. qty.
TBM840	Crimp tool for #8 to 4/0 copper lugs with rotating colour-coded die wheel	1

Manual compression tools

OD series manual compression tool

- Integral self-gauging system in tool head assures proper adjustment before each crimp
- Improved design reduces force to crimp by as much as 20%
- Teflon® over bronze bearings greatly reduces wear at linkage and pins; far superior to steel bearing surfaces
- All standard insert dies available for OD58 tool (“O” and “D”, 840, etc.), ⅝ in. fixed die in nose
- ODF tool has fixed “O” and “D” dies
- ODB tool has fixed “O” and “D” dies; accepts standard insert dies designed for MD6 tool
- Distribution of weight over tool length gives better balance, results in easier handling and positioning
- Optional fiberglass handles for greater strength, lighter weight, better insulating properties and lower moisture absorption rate
- ODF and ODB tools with insulated heads available as an option
- Lever action tool with hot stick handles of Glastrux Fiberglas, rated and tested for 100kV/ft./5 minutes
- Lever action results in minimum applied force to crimp

Cat no.	Description	Weight (lb)
OD58	Manual tool with ⅝ in. nose die and insert die cavity, straight wooden handles	6.5
OD581	Manual tool with ⅝ in. nose die and insert die cavity, straight fiberglass handles	6.0
OD583	Manual tool with ⅝ in. nose die and insert die cavity, curved wooden handles	6.5
ODF1	Manual tool with fixed O & D dies, fiberglass handles	6.0
ODB	Manual tool with fixed O & D dies, “D” die cavity accepts MD6 tool insert dies, straight wooden handles	–
ODB1	Manual tool with fixed O & D dies, “D” die cavity accepts MD6 tool insert dies, fiberglass handles	6.0
ODB3	Manual tool with fixed O & D dies, “D” die cavity accepts MD6 tool insert dies, curved wooden handles	6.5
ODH1	Insulating head cover	0.40

For hand tool with insulated head, add suffix 5 to catalogue number; e.g. OD585. Refer to pp. 31–46 for dies.

Manual compression tools

UT 3 M installation tool
Nothing to lose – a built-in ⅝ in. die is precision-cast and installs compression connectors from #8 to 4/0 AWG.

- One stroke of the tool develops full compression
- Ensures proper compression before jaws will release
- Only 2.2 lb

Cat no.	Description
UT 3 M	Installs compression connectors from #8 to 4/0 AWG

UT 3 installation tool and upper dies
Removable, reversible die installs ½ in. and ⅝ in. compression connectors.
Perform additional installation work. UT3-4 G is a ½ in. and ⅝ in. gold upper die for ACSR and stranded wire. UT 3-4 R is a ½ in. and ⅝ in. red upper die for compressed and compact stranded wire

- One stroke of the tool develops full compression
- Only 2.2 lb

Cat no.	Description
Installation tool	
UT 3	Installs compression connectors on ACSR, stranded, compressed and compact stranded
Upper dies	
UT 3-4G	½ in. and ⅝ in. gold upper die for ACSR and stranded
UT 3-4R	½ in. and ⅝ in. red upper die for compressed and compact stranded

Metric compression tools

Specifications
- Wire range: 0.25–10 sq. mm
- Dimensions (L x W): 9.21 in. x 2.87 in.
- Weight: 1.15 lb

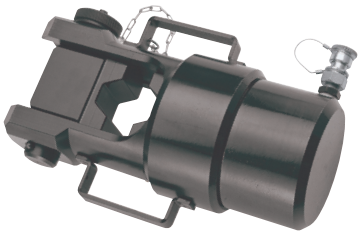
TBM25MCC crimp tool
- For non-insulated metric connectors
- High-precision heat-treated steel jaws
- Ergonomically designed molded plastic grips
- Compact, lightweight and easy to use
- Toggle-action leverage reduces operator effort
- Shure Stake mechanism ensures a properly completed crimp each time
- Automatic handle opening after crimping operation

Cat no.	Description	Pkg. qty.
TBM25MCC	Mechanical crimp tool	1

Specifications
- Output force: 25.8 tons
- Operating pressure: 10,000 psi nominal
- Dimensions (L x W): 12.4 in. x 4.7 in.
- Weight: 11.4 lb

TBM26MCC 26-ton hydraulic crimping head
- Installs crimp-type electrical connectors on cables up to 500 mm^2
- Includes male automatic coupler for connection to 10,000 psi hydraulic pump
- Optional adaptor (TBM26M-ADP) available for use with semicircular slotted dies common to most C-shaped heads (12 ton) available on the market
- Sturdy steel carrying case complete with die compartment for holding up to 10 sets of dies available on request

Cat no.	Description	Pkg. qty.
TBM26MCC	26-ton hydraulic presshead	1
TBM26M-ADP	Adaptor	1



Specifications
- Output force: 58.4 tons
- Operating pressure: 10,000 psi nominal
- Dimensions (L x W): 12 in. x 7.9 in.
- Weight: 39.6 lb

TBM60MCC 60-ton hydraulic crimping head
- Installs crimp-type electrical connectors on cables up to 1,000 mm^2
- Includes male automatic coupler for connection to 10,000 psi hydraulic pump
- Optional adaptor (TBM60M-ADP) available for use with semicircular slotted dies common to most C-shaped heads (12 ton) available on the market
- Sturdy steel carrying case complete with die compartment for holding up to 10 sets of dies available on request

Cat no.	Description	Pkg. qty.
TBM60MCC	60-ton hydraulic presshead	1
TBM60M-ADP	Adaptor	1

Tools with adaptors can be used with standard 12- and 15-ton half shelled dies.
Please contact your regional sales office for information concerning metric dies.

Power-assisted compression tools

Li inline 6-ton closed crimp tool

- Designed with a rotating 180° head and integrated LED work lights, offering more maneuverability in tight spaces, while still providing 6 tons of parallel-action crimping force
- Designed for one-handed control ram advancement and retraction with a rapid advance feature that decreases crimp time
- Accepts W-style dies

Approx. 350 crimps per full battery charge (based on 3/0 AWG cable)

Specifications

- Capacity: Cu #8–600 kcmil, Al #8–400 kcmil
- Output force: 6 tons
- Dimensions (L x W x H): 18 in. x 3.5 in. x 4.5 in.
- Battery: 14.4 V DC
- Weight with battery: 8.75 lb

Cat no.	Description	Pkg. qty.
TBM62CR-LI	Li inline 6-ton closed crimp tool	1

Li inline 6-ton open OD crimp tool

- Designed with a rotating 180° jaws and integrated LED work lights, offering more maneuverability in tight spaces, while still providing 6 tons of scissor-action crimping force
- Designed for one-handed control ram advancement and retraction with a rapid advance feature that decreases crimp time
- Accepts W-style dies

Approx. 350 crimps per full battery charge (based on 3/0 AWG cable)

Specifications

- Capacity: Cu #8–300 kcmil, Al #8–4/0 kcmil
- Output force: 6 tons
- Dimensions (L x W x H): 22 in. x 3.5 in. x 4.5 in.
- Battery: 14.4 V DC
- Weight with battery: 8.75 lb

Cat no.	Description	Pkg. qty.
TBM6UCR-LI	Li inline 6-ton open OD crimp tool	1

Power-assisted compression tools

Li 6-ton open crimp tool

- Designed for one-handed control ram advancement and retraction
- Open yoke design with rotating head allows for maximum crimping flexibility
- Protective rubber insulated boot on head
- Rapid advance feature decreases crimp time
- Approx. 350 crimps per full battery charge (based on 3/0 AWG cable)

Specifications

- Capacity: Cu #8–600 kcmil, Al #8–400 kcmil
- Output force: 6 tons
- Dimensions (L x W x H): 13 in. x 2.5 in. x 12 in.
- Battery: 14.4 V DC
- Weight with battery: 8.75 lb

Cat no.	Description	Pkg. qty.
TBM6PCR-LI	Li 6-ton open crimp tool equipped with lithium-ion (LI) battery technology.	1

Li 6-ton closed crimp tool

- Designed for one-handed control ram advancement and retraction
- Rotating head allows maximum flexibility for crimping
- Rapid advance feature decreases crimp time
- Approx. 350 crimps per full battery charge (based on 3/0 AWG cable)

Specifications

- Capacity: Cu #8–600 kcmil, Al #10–400 kcmil
- Output force: 6 tons
- Dimensions (L x W x H): 13 in. x 2.5 in. x 12 in.
- Battery: 14.4 VDC
- Weight with battery: 8.5 lb

Cat no.	Description	Pkg. qty.
TBM62PCR-LI	Li 6-ton closed crimp tool	1

Power-assisted compression tools

Creates hex-style crimp

TBM6H 6-ton hydraulic crimping head

- Lightweight design – weighs less than 7 lb, including dies
- Embosses die code on connection for easy inspection
- Uses 6-ton series and Blackburn® “O” and “D” series dies colour-coded for easy matching with Color-Keyed connectors (refer to pp. 31–46)

Specifications

- Installing range:
  - Up to 600 kcmil copper lugs and splices
  - Up to 400 kcmil aluminum lugs and splices
  - CHT814-10 to CHT214-9 copper H-taps
  - 63105 to 63148 aluminum H-taps
  - 54705 to 54750 C-taps
- Output force: 6 tons
- Dimensions (L x W x H): 12 in. x 2¼ in. x 3⁹⁄₁₆ in.
- Weight: 6.5 lb

Cat no.	Description	Pkg. qty.
TBM6H	6-ton hydraulic head with steel case	1

Li inline 6-ton open crimp tool

- Designed with rotating 180° jaws and integrated LED work lights, offering more maneuverability in tight spaces, while still providing 6 tons of scissor-action crimping force
- Designed for one-handed control ram advancement and retraction with a rapid advance feature that decreases crimp time
- Accepts W-style dies
- Approx. 500 crimps per full battery charge (based on 3/0 AWG cable)

Specifications

- Capacity: Cu #8–500 kcmil, Al #10–350 kcmil
- Output force: 6 tons
- Dimensions (L x W x H): 20 in. x 3.5 in. x 4.5 in.
- Battery: 14.4 V DC
- Weight with battery: 8.75 lb

Cat no.	Description	Pkg. qty.
TBM6UNICR-LI	Li inline 6-ton open die crimp tool	1

Power-assisted compression tools

TBM14RH 14-ton remote hydraulic head

- Crimps connectors up to 900 kcmil copper and 750 kcmil aluminum
- Wide, 1.65 in. jaw opening accommodates large connectors
- Quick automatic coupler enables fast connection to hydraulic systems
- Requires hydraulic pump with working pressure of 10,000 psi
- Provides 14 tons of crimping force
- Includes carrying case (dies sold separately)
- Use standard ABB Color-Keyed 15500 series dies (refer to pp. 31–46)

Specifications

- Installing range:
  - Up to 900 kcmil copper lugs and splices
  - Up to 750 kcmil aluminum lugs and splices
  - 54755 to 54775 C-taps
- Output force: 14 tons
- Dimensions (L x W x H): 9⅛ in. x 3¾ in. x 4⅞ in.
- Weight: 8.5 lb

Cat no.	Description	Pkg. qty.
TBM14RH	14-ton crimp remote head	1

Creates hex-style crimp

13100A 14-ton hydraulic crimping head

- Rugged design, made to last in field or on bench
- C-yoke provides maximum flexibility for crimping
- Uses standard ABB Color-Keyed 15500 series dies (refer to pp. 31–46)
- Operates on 10,000 psi hydraulic pumps

Specifications

- Installing range:
  - Up to 900 kcmil copper lugs and splices
  - Up to 750 kcmil aluminum lugs and splices
  - CHT814-10 to CHT2502-6 copper H-taps
  - 63105 to 63148 aluminum H-taps
  - 54755 to 54775 C-taps
- Output force: 14 tons
- Operating pressure: 10,000 psi nominal
- Dimensions (L x W x H): 11½ in. x 2½ in. x 4¼ in.
- Weight: 10 lb

Cat no.	Description	Pkg. qty.
13100A	14-ton hydraulic head with steel case	1

Power-assisted compression tools

Li 14-ton open crimp tool

- Rotating head allows maximum flexibility for crimping
- Protective rubber boot on “C” head
- Rapid advance feature decreases crimp time
- Approx. 150 crimps per full battery charge (based on 3/0 AWG cable)

Specifications

- Installing range:
  - Up to 900 kcmil copper lugs and splices
  - Up to 750 kcmil aluminum lugs and splices
- Capacity: Cu #8–900 kcmil, Al #10–750 kcmil
- Output force: 14 tons
- Dimensions (L x W x H): 19 in. x 3.5 in. x 10.5 in.
- Battery: 14.4 V DC
- Weight with battery: 20 lb

Cat no.	Description	Pkg. qty.
TBM14CR-LI	Li 14-ton open crimp tool	1

Battpac™ TBM15CR-LI hermetically sealed 15-ton battery-powered compression tool

- Rotating head allows maximum flexibility for crimping
- Protective rubber boot on head
- Rapid advance feature decreases crimp time
- Approx. 150 crimps per full battery charge (based on 3/0 AWG cable)

Specifications

- Installing range:
  - Up to 1500 kcmil copper lugs and splices
  - Up to 1250 kcmil aluminum lugs and splices
- Capacity: Cu #8–1,500 kcmil, Al #10–1,250 kcmil
- Output force: 14 tons
- Dimensions (L x W x H): 21.5 in. x 3.5 in. x 10.5 in.
- Battery: 14.4 V DC
- Weight with battery: 24 lb

Cat no.	Description	Pkg. qty.
TBM15CR-LI	Li 15-ton closed crimp tool	1
15500-TB	Die adaptor for 15500 series dies	1

Power-assisted compression tools

Creates hex-style crimp

TBM15I 15-ton hydraulic crimping head

- Head made of forged steel and insulated with rubber boot
- Longer, slimmer design enables easier access into tight spaces, such as in cable tray and central office applications
- Wider jaw opening eases crimping of larger lugs, C-taps and H-taps
- Uses 15600 series dies; can also use 15500 series dies with 15500-TB adaptor (refer to pp. 31–46)

Specifications

- Installing range:
  - Up to 1,500 kcmil copper lugs and splices
  - Up to 1,000 kcmil aluminum lugs and splices
  - CHT814-10 to CHT750-350-1F copper H-taps
  - 63105 to 63180 aluminum H-taps
  - 54755 to 54790 C-taps
- Output force: 15 tons
- Operating Pressure: 10,000 psi nominal
- Dimensions (L x W x H): 15¾ in. x 2⅝ in. x 4⅜ in.
- Weight: 16.5 lb

Cat no.	Description	Pkg. qty.
TBM15I	Insulated 15-ton hydraulic head with steel case	1

15600 series – Fits directly into tool for larger size connectors, 800 kcmil–1500 kcmil.
15500 series – Used in conjunction with 15500-TB adaptor, #8 AWG–750 kcmil.

Creates hex-style crimp

21940 40-ton hydraulic crimping head

- Compact design delivers maximum pressure for larger lugs and splices
- Ideal for applications requiring larger lugs up to 2000 kcmil
- Uses 11300 and 11400 series dies (refer to pp. 31–46)

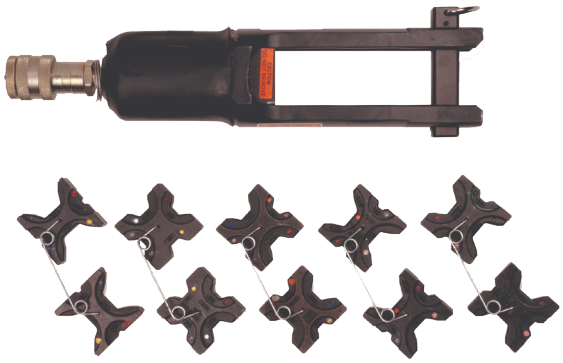
Specifications

- Installing range:
  - Up to 2,000 kcmil copper lugs and splices
  - Up to 2,000 kcmil aluminum lugs and splices
- Output force: 40 tons
- Operating pressure: 10,000 psi nominal
- Dimensions (L x W x H): 12 in. x 4¾ in. x 7⅜ in.
- Weight: 40 lb

Cat no.	Description	Pkg. qty.
21940	40-ton hydraulic press with steel carrying case	1

Suggested replacement oil ABB cat. no. 21061 or any light weight hydraulic fluid or automatic transmission fluid is recommended.
Do not use silicon-based fluids.

Power-assisted compression tools



Creates hex-style crimp

TBM12 12-ton hydraulic crimp head

- Rugged steel construction is durable for most applications
- Includes five sets of multi-nested dies
- Dies emboss die code on connectors for easy inspection
- Closed yoke design yields maximum crimp performance
- Uses TBM12D style dies (refer to pp. 31–46)

Specifications

- Installing range:
  - Up to 900 kcmil copper lugs and splices
  - Up to 750 kcmil aluminum lugs and splices
  - 54755 to 54775 C-taps
- Output force: 12 tons
- Operating pressure: 10,000 psi nominal
- Dimensions (L x W x H): 14¼ in. x 2½ in. x 3⅞ in.
- Weight: 9 lb

Cat no.	Description	Pkg. qty.
TBM12	12-ton hydraulic head with steel case	1

If using old style 11700 series die set, use adaptor, cat. no. TBM12D-AR (not included) for adaptation to the above tool. Order adaptor separately.

Creates hex-style crimp

13642M 12-ton hydraulic crimping head

- Rugged steel construction is durable for most applications
- Used for Color-Keyed and Sta-Kon® connectors
- The only military-listed hydraulic head (Mil. Spec. MS25441-1)
- Uses 11700 series dies for Color-Keyed connectors (refer to pp. 31–46)

Specifications

- Installing range:
  - Up to 900 kcmil copper lugs and splices
  - Up to 750 kcmil aluminum lugs and splices
- 54755 to 54775 C-taps
- Output force: 12 tons
- Operating pressure: 10,000 psi nominal
- Dimensions (L x W x H): 14½ in. x 2½ in. x 3 15/16 in.
- Weight: 9 lb

Cat no.	Description	Pkg. qty.
13642M	12-ton hydraulic head with steel case	1

Manual and power-assisted compression tools

Smart™ Tool

- Automatically compresses to the correct depth based on size of connector in jaws
- C-type head swivels 90° for easy crimp positioning
- Forged steel construction is well suited for both field and bench work
- Installs both Color-Keyed and non-insulated Sta-Kon® connectors

How the Smart tool works

The Smart Tool was engineered with built-in intelligence* that enables it to sense the connector barrel diameter and automatically apply just the right amount of compression force. This eliminates virtually all air spaces and forms the connector and conductor strands into a solid mass, resulting in a high-quality, low-resistance connection. In addition, the tool clearly embosses each compression for positive verification that the correct tool was used.

* Novopress System

Uniform, dependable connections

The Smart Tool gives you consistent, high-quality compression connections over a wide range of connector sizes. Available in manual, battery-powered and air-operated versions, this tool easily installs lugs and splices from #8 AWG through 900 kcmil copper or 750 kcmil aluminum — without changing dies. For the specified wire range, all you need is one tool. You always have the right die size, eliminating die selection mistakes.

Lower installation costs

Productivity will be greatly improved with the Smart Tool, especially when installing a variety of connector sizes or types. Initial investment is low, requiring minimal tool inventory. These benefits add up to lower installed cost.

C-type yoke offers installation convenience

The C-type yoke configuration and large die spacing enable the Smart Tool to slip directly over the connector. This means added speed and convenience when installing two-way splice connectors, especially in confined spaces.

Smart™ tool range-taking features

The following size Color-Keyed lugs and splice connectors, when crimped with the Smart Tool, produce these range-taking capabilities:

Copper (AWG or kcmil)		Aluminum (AWG or kcmil)	
Standard wire size	**Range taking**	**Standard wire size**	**Range taking**
1/0	#6–1/0	1/0	#6–1/0
2/0	#1–2/0	2/0	#1–2/0
4/0	#2–4/0	4/0	#2–4/0
300	#2/0–300	300	#2/0–300
350	250–350	350	250–350
500	250–500	500	4/0–500
750	500–750	750	500–750

Manual and power-assisted compression tools

Creates indent-style crimp

TBM8-750M-1 12-ton dieless manual hydraulic Smart™ Tool

Specifications

- Installing range:
  - Up to 900 kcmil copper lugs and splices
  - Up to 750 kcmil aluminum lugs and splices
- Output force: 12 tons
- Dimensions (L x W): 21½ in. x 4⁷⁄₃₂ in.

Cat no.	Description	Pkg. qty.
TBM8-750M-1	12-ton dieless manual hydraulic compression tool	1

Creates indent-style crimp

Battpac™ LT TBM8-750BSCR 12-ton dieless battery-powered Smart™ Tool

Specifications

- Installing range:
  - Up to 900 kcmil copper lugs and splices
  - Up to 750 kcmil aluminum lugs and splices
  - Min. of 40 crimps (4/0 AWG per battery charge)
- Output force: 12 tons
- Dimensions (L x W x H): 19½ in. x 3⅞ in. x 8½ in.
- Battery: Ni-MH 14.4 V 3.0 Ah
- Weight with battery: 9 lb

Cat no.	Description	Pkg. qty.
TBM8-750BSCR	12-ton dieless battery-powered compression tool Includes carrying case, charger, two batteries and carry strap	1

Manual and power-assisted compression tools

Creates indent-style crimp

TBM8-750 12-ton dieless Smart™ hydraulic head

Specifications

- Installing range:
  - Up to 900 kcmil copper lugs and splices
  - Up to 750 kcmil aluminum lugs and splices
- Output force: 12 tons
- Operating pressure: 10,000 psi nominal
- Dimensions (L x W x H): 14½ in. x 4⁷⁄₃₂ in. x 2⁹⁄₁₆ in.
- Weight: 9 lb

Cat no.	Description	Pkg. qty.
TBM8-750	12-ton dieless hydraulic compression head	1

Options

Cat no.	Description
TBM8-750G	Field compression gauging kit for above tools
TBM8-750C20	Die set installs cat. no. 54720 copper “C” taps
TBM8-750C2530	Die set installs cat. nos. 54735, 54730 copper “C” taps
TBM8-750C3540	Die set installs cat. nos. 54735, 54740 copper “C” taps
TBM8-750C4550	Die set installs cat. nos. 54735, 54750 copper “C” taps

Cat no.	Description
TBM8-750CL	Die set installs cat. nos. 54755 through 54775 copper “C” taps
TBM8-750HG	Die set installs cat. nos. 63110 through 63118 and 63125 copper “H” taps
TBM8-750HB	Die set installs cat. nos. 63140 through 63148 copper “H” taps

Creates hex-style crimp

TBM15MG

TBM14M 14-ton manual hydraulic crimp tool

- Features fiberglass handles for insulation and ease of use in tight spaces
- Two-stage pump provides rapid advance for fast installation
- Uses standard ABB Color-Keyed 15500 series dies (refer to pp. 31–46)

Specifications

- Installing range:
  - Up to 900 kcmil copper lugs and splices
  - Up to 750 kcmil aluminum lugs and splices
  - CHT814-10 to CHT2502-6 copper H-taps
  - 63105 to 63148 aluminum H-taps
  - 54755 to 54775 C-taps
- Output force: 14 tons
- Length: 24 in.
- Weight without dies: 15.4 lb

Cat no.	Description	Pkg. qty.
TBM14M	14-ton manual hydraulic crimp tool with case	1
TBM15MG	15-ton force test gauge	1

Manual and power-assisted compression tools

Li inline 12-ton open crimp tool

- Designed for one-handed control ram advancement and retraction
- Rotating head allows maximum flexibility for crimping and a protective rubber boot on “C” head
- Rapid advance feature decreases crimp time
- Approx. 150 crimps per full battery charge (based on 3/0 AWG cable)

Specifications

- Capacity: Cu #8–750 kcmil, Al #8–750 kcmil
- Output force: 12-ton
- Dimensions (L x W x H): 16.5 in. x 3.3 in. x 12.6 in.
- Battery: 14.4 V DC
- Weight with battery: 16.8 lb

Cat no.	Description	Pkg. qty.
TBM12PCR-LI	Li inline 12-ton open die crimp tool	1

Hydraulic pumps

13606 foot/hand-operated and 13604 hand-operated hydraulic pump

- 13606 operates with either foot or hand; 13604 is hand operated only
- Operate all ABB hydraulic heads
- Built-in safety bypass valve
- Factory set at 9,800 psi

Specifications

- Nominal pressure: 9,800 psi
- Pumping capacity: 2.6 cu. in./min. at 200 psi
  0.16 cu. in./min. at 10,000 psi
- Reservoir volume: 125 cu. in. (0.54 gal.)
- Max. handle force: 130 lb
- Dimensions (L x W x H): 23 in. x 5¾ in. x 6¾ in.
- Weight: 29 lb

Cat no.	Description	Pkg. qty.
13606	Combination hand- or foot-operated hydraulic pump	1
13604	Hand-operated hydraulic pump	1

Battpac™ BPLT13970P2 pump

- Small and lightweight
- 60 minutes full recharge
- Highly visible display indicates battery power level
- Socket for 24 VDC external connection
- Operation in any position: on its side or upright
- Separate operation/release buttons protect against accidental operation
- Energy consumption limited by automatic shut-off
- Easily accessible oil top-up inlet

Battery performance guide

In tests, the number of crimps obtained from a fully charged battery, using a remote crimping head, was:

- 102 crimps for Cu connectors on 250 kcmil Cu conductor
- 98 crimps for C-tap connectors on #2 AWG Cu conductor
- 76 crimps for Cu sleeve connectors on 500 kcmil Cu conductor

Specifications

- Nominal pressure: 10,000 psi
- Pumping capacity: 30 cu. in./min.
- Reservoir volume: 60 cu. in. (0.26 gal.)
- Dimensions (L x W x H): 13½ in. x 6½ in. x 12¾ in.
- Battery: Ni-MH 24 V, 3.0 Ah
- Weight with battery: 20.9 lb

Cat no.	Description	Pkg. qty.
BPLT13970P2	Battpac pump includes canvas accessories carrying bag, carrying strap, remote hand controller, two batteries, battery charger and non-drip couplings	1
BPLT13970RB	Ni-MH 24 V replacement battery	1
BPLT13970RP	Canvas backpack for pump	1
BPLT13970DC	Power connecting cable with clips	1
BPLT13970FS	Remote foot pedal controller	1

Suggested replacement oil ABB cat. no. 21061 or any light weight hydraulic fluid or automatic transmission fluid is recommended.
Do not use silicon-based fluids.

Hydraulic pumps

13600 electric hydraulic pump

- Designed for use with single-acting cylinders and tools rated for 10,000 psi operation
- Supplied with metal carrying case
- 13620 hand switch and 13619 hydraulic hose, both sold separately, required for operation

Specifications

- Motor: ½ hp, 115 V 50–60 Hz 10 A
- Pumping capacity:
  - 170 cu. in./min. at 100 psi
  - 32 cu. in./min. at 1,000 psi
  - 25 cu. in./min. at 5,000 psi
  - 18 cu. in./min. at 10,000 psi
- Reservoir volume: 104 cu. in. (0.45 gal.)
- Basic pump dimension: (L x W x H) 6 in. x 8 in. x 16 in.
- Weight: 25 lb
- Nominal pressure: 10,000 psi

Cat no.	Description	Pkg. qty.
13600	Electric hydraulic pump – hand or foot switch and nonmetallic hose (sold separately) required for operation	1
Accessories		
13620	Hand switch – 10 ft.	1
13589A	Foot switch – 10 ft.	1
13619	10 ft. nonmetallic hose	1
13618	20 ft. nonmetallic hose	1
13600S	“Sled” type stand for 13600 pump	1

Suggested replacement oil ABB cat. no. 21061 or any light weight hydraulic fluid or automatic transmission fluid is recommended. Do not use silicon-based fluids.

13610A electric hydraulic pump with Shure Stake control

- Shure Stake control mechanism requires 9,800 psi pump pressure before recyling to prevent under-crimping
- Designed for use with single-acting cylinders and tools rated for 10,000 psi operation
- Supplied with metal carrying case

Specifications

- Motor: ½ hp, 115 V 50–60 Hz 12.5 A
- Pumping capacity:
  - 170 cu. in./min. at 100 psi
  - 32 cu. in./min. at 1,000 psi
  - 25 cu. in./min. at 5,000 psi
  - 18 cu. in./min. at 10,000 psi
- Reservoir volume: 104 cu. in. (0.45 gal.)
- Basic pump dimension: (L x W x H) 8½ in. x 10½ in. x 16 in.
- Weight: 35 lb
- Nominal pressure: 10,000 psi

Cat no.	Description	Pkg. qty.
13610A	Electric hydraulic pump with Shure Stake – hand or foot switch and nonmetallic hose (sold separately) required for operation	1
Accessories		
13611	Hand switch – 10 ft.	1
13612	Foot switch – 10 ft.	1
13619	10 ft. nonmetallic hose	1
13618	20 ft. nonmetallic hose	1

Suggested replacement oil ABB cat. no. 21061 or any light weight hydraulic fluid or automatic transmission fluid is recommended. Do not use silicon-based fluids.

Hydraulic pumps

13810 heavy-duty electric hydraulic pump with Shure Stake control

- Designed for perfect crimps every time in heavy-duty OEM applications
- Heavy-duty OEM two-stage pump with high flow rate
- Shure Stake control mechanism requires 9,800 psi pump pressure before recyling to prevent under-crimping
- Requires hand or foot control (sold separately)

Specifications

- Motor rating: 1½ hp, 115 V, 60 Hz, 23 A
- Pumping capacity:
  - 235 cu. in./min. at 200 psi
  - 61 cu. in./min. at 8,000 psi
- Reservoir volume: 462 cu. in. (2 gal.)
- Dimensions (L x W x H): 10¾ in. x 15 in. x 20¾ in.
- Weight: 60 lb
- Nominal pressure: 10,000 psi

Cat no.	Description	Pkg. qty.
13810	Heavy-duty electric hydraulic pump with Shure Stake control — hand or foot switch and nonmetallic hose (sold separately) required for operation	1
Accessories		
13611	Hand switch – 10 ft.	1
13612	Foot switch – 10 ft.	1
13619	10 ft. nonmetallic hose	1
13618	20 ft. nonmetallic hose	1
21061	Hydraulic oil	1
13798	Male pioneer quick disconnect coupler	1
13799	Female pioneer quick disconnect coupler	1
13614	Metallic reinforced hose for OEM operations – 10 ft.	1

Suggested replacement oil ABB cat. no. 21061 or any light weight hydraulic fluid or automatic transmission fluid is recommended. Do not use silicon-based fluids.

Creates diamond-style crimp

25000 air-operated bench-mount crimp tool

- Installs copper and aluminum connectors on wire sizes from #8 AWG to 500 kcmil
- Compact, heavy-duty pneumatic air tool
- Simple to operate – just insert stripped wire into connector barrel, position it in crimping nest and depress foot pedal to actuate crimping dies
- Uses same crimping dies as TBM6S (13000 series) (see page 33)

Cat no.	Description	Pkg. qty.
25000	Air-operated bench-mount crimp tool	1

Cable strippers, cutters and other tools

BCT840, BCT840S

TBM5SV, TBM5V

Battery connector crimp tools

- Available with Shure Stake mechanism to ensure a complete crimp every time (BCT840S)
- Crimps casting and tubular battery connectors ranging from 4 AWG to 4/0 AWG
- Heavy-duty crimping tool including die for 8 AWG-4/0 battery connectors, lugs and splices
- The single die is an integral part of the tool; no dies to lose or misplace

BCS8-40 battery cable stripper

Cat no.	Description	Pkg. qty.
BCS8-40	Cable stripper for 8 –4/0 AWG battery cable with replacement blade provided in the handle	1

368-CK cable stripper

Cat no.	Description	Pkg. qty.
368-CK	Cable stripper for #1 AWG to 1,000 kcmil	1

364RF/366RF cable cutters with fiberglass handles

Cat no.	Description	Pkg. qty.
364RF	Cutter for up to 500 kcmil copper and aluminum	1
366RF	Cutter for up to 1,000 kcmil copper and aluminum	1

For copper and aluminum cable only. Not for steel.
Contact Tool Service for replacement blades.

Cable strippers, cutters and other tools

TBM40HC hand-operated hydraulic cutting tool

- Specifically designed to cut copper, aluminum and telecommunications cables up to 3.35 in. O.D.
- Offers dual-speed action: fast advancing speed for rapid approach of blades to cable and slower, more powerful speed for cutting
- Blades manufactured from high-strength, heat-treated steel to ensure long service life
- Head easily opens to enable cutting of existing run cables
- Head rotates 180°, enabling operator to position for easiest use
- Automatic safety valve bypasses hydraulic system when reaching maximum pressure
- Pressure release device can also be activated during any point of operation

Specifications

- Max. cutting capacity: 3.35 in. O.D.
- Dimensions (L x W): 25.69 in. x 6.89 in.
- Weight: 14.55 lb

Cat no.	Description	Pkg. qty.
TBM40HC	Hand-operated hydraulic cutting tool	1

Contact Tool Service for replacement blades.

CSR750 cable cutter

- Special advance stroke mechanism requires less handle force
- Cuts copper or aluminum cables up to 750 kcmil
- Short handles (only 10 in. long) enable use in tight spaces

Cat no.	Description	Pkg. qty.
CSR750	Cutter for up to 750 kcmil copper or aluminum	1

Contact Tool Service for replacement blades.

Cable strippers, cutters and other tools

Li cutter for up to 1,500 kcmil Al

- Designed for one-handed control of blade advancement and retraction
- Cuts up to 1,000 kcmil copper and 1,500 kcmil (2⅛ in. O.D.) aluminum (not for use on ACSR)

Specifications

- Capacity: Cu 1,000 kcmil, Al 1,500 kcmil (ACSR – do not cut)
- Dimensions (L x W x H): 16 in. x 4.5 in. x 5 in.
- Battery: 14.4 VDC
- Weight with battery: 5.8 lb

Cat no.	Description
TBM54CT-LI	Li cutter for up to 1,000 kcmil Cu and 1,500 kcmil Al

Li cutter for 750 kcmil Cu, 636 kcmil ACSR

- Designed for one-handed control of blade advancement and retraction
- Cuts up to 750 kcmil copper, 2⅛ in. O.D. aluminum and 636 kcmil ACSR

Specifications

- Capacity: Cu 750 kcmil, Al 1,500 kcmil, ACSR 636 kcmil
- Dimensions (L x W x H): 16 in. x 4.5 in. x 5 in.
- Battery: 14.4 VDC
- Weight with battery: 5.8 lb

Cat no.	Description
TBM54CTS-LI	Li cutter for 750 kcmil Cu, 636 kcmil ACSR

Cable strippers, cutters and other tools

Li cutter for steel, ACSR, Al, Cu

- Designed for one-handed control of blade advancement and retraction
- Rotating head to allow maximum flexibility for cutting
- Features a two-stage rapid advance ram for reduced cycles with overload bypass protection, which will pop off if the material is beyond the cutter's capacity
- Cuts up to 1½ in. O.D. copper, aluminum and ACSR cable
- Cuts rebar, ground rod up to ⅝ in. and wire rope up to ¾ in.
- 14.4 V DC

Specifications

- Capacity: Wire rope ¾ in., rebar ⅝ in., ground rod ⅝ in. ACSR 1½ in., Cu/Al cable 1½ in.
- Dimensions (L x W x H): 17.5 in. x 2.5 in. x 13 in.
- Battery: 14.4 V DC
- Weight with battery: 14.6 lb

Cat no.	Description	Pkg. qty.
TBM58PCTS-LI	Li cutter for steel, ACSR, Al, Cu	1

297-32136 hydraulic cutting head

- Heavy-duty cutter with high strength steel blades
- Cuts both aluminum and copper wire to 1½ O.D.
- Cutter supplied with carrying case

Specifications

- Max. cutting capacity (aluminum and copper): 1½ in. O.D.
- Dimensions (L x W x H): 14½ in. x 2½ in. x 4 in.
- Weight: 8.5 lb

Cat no.	Description	Pkg. qty.
297-32136	Hydraulic cutting head	1

Contact Tool Service for replacement blades.

TBM40HCRH hydraulic cutting head

- Heat-treated, high-strength steel blades for clean cuts and long service life
- Quick automatic coupler speeds connection to hydraulic systems
- Cutter supplied with carrying case

Specifications

- Max. cutting capacity (copper, aluminum and telecommunications cable): Up to 3.35 in. O.D.*
- Hydraulic Operating Pressure: 10,000 psi (maximum)
- Dimensions (L x W): 15.94 in. x 5.63 in.
- Weight: 10.8 lb

* Not designed for cutting steel-reinforced conductors

Cat no.	Description	Pkg. qty.
TBM40HCRH	Hydraulic cutting head	1

Contact Tool Service for replacement blades.

Installing dies

Insert dies for TBM6H hydraulic head and type OD tools

Cat no.	Description or colour codes	Cat no.	Description or colour codes
OJB	0	BY37	840 (EEI 11A)
DBL	D	BY55	Wire cutter (2/0 max.)
BY39	510 Hex (non-bow)	BY63	Orange (Nicopress)
BY41	635 Hex (non-bow)	BY65	Plum
BY43	747 Hex (non-bow)	BY15C*	7/32 Red
BY45	T	BY17C*	1/4 Blue
BY47	K	BY19C*	5/16 Grey
BY49	B	BY21C*	3/8 Brown
BY51	J	BY23C*	1/2 Pink
BY53	P	BY24C*	1/2–1 Gold
BY13	3/16	BY25C*	9/16 Tan/orange
BY15*	7/32 (EEI–1 index 236)	BY27C*	11/16 Yellow
BY17	1/4	BY31C*	5/8–1 Olive/purple
BY19	5/16 (index 161.242)	BY32C*	Ruby
BY21	3/8	BY35C*	781 White
BY23	1/2 (index 163)	BY37C*	840 Red
BY25	9/16	BY28C*	17/32 Black
BY27	11/16	BY53C*	P Green
BY29	19/32	BG-1-BB	Canvas bag for OD58
BY31	5/8–1 (index 165)	ODH1	Insulating head cover
BY33	737	–	–
BY35	781	–	–

*Can also be used with OD58 tool.

Insert dies for hydraulic heads* – JB12B, 13100A, TBM14M, TBM14CR-LI, TBM14RH, TBM15I, TBM15CR-LI

Cat no.	Description or colour codes	Cat no.	Description or colour codes
B58CS	5/8 Die set	B75AH	–
HO	"O" Die set	B76AH	–
HD	"D" Die set	B76SH	–
HN	"N" Die set	B06CHI	Pink/gold #1/0 AWG Cu
HU	"U" Die set	B08CH	Tan/orange #3/0 AWG Cu
HBKC	BKC	B09CH	Olive/purple #4/0 AWG Cu
HBKT	BKT	B11CH	Red/blue #350/400 kcmil Cu
B24EA	EEI 8A	B10SH	–
B30EA	EEI 9A	B05CH	Green #1 AWG Cu
B39EA	EEI 10A	B26CH	Ruby/yellow #250 kcmil Cu
B49EA	EEI 11A (840)	B71CH	Red #8 AWG Cu
B61EA	EEI 12A	B72CH	Black #2/0 AWG Cu
B80EA	EEI 13A	B73CH	Blue #6 AWG Cu
B20AH	EEI14A	B74CH	Grey #4 AWG Cu
B71AH	–	B75CH	Brown #2 AWG Cu
B72AH		B76CH	Pink #500 kcmil Al
B73AH		B10CHI	White #300 kcmil Cu
B74AH		B12CHI	Brown #500 kcmil Cu

*Adaptor 15500-TB required with ABB 15-ton tools.

Cross-reference for 21940 (40-ton) tool dies

Die designation	Die code	ABB cat. no.	Burndy part no. Copper	Burndy part no. Aluminum
–	66	11409	30RT	28RT
840	71 / 76	11363 / 11410	31RT / 32RT	29RT / 30RT
1	87	11423	34RT	31RT
1 1/8	94 / 99	11364 / 11424	36RT / 38RT	32RT / 34RT
–	106	74506	39RT	36RT
1 5/16	107 / 112	11425 / 11426	40 RT	40 RT
1 1/2	115 / 125	11308 / 11416	44 RT	39 ART
1 5/8	140	11418	–	40RT
1 3/4	150 / 161	11419 / 11420	46RT	44RT
–	175	11421	–	–

Installing dies

Dies for lugs and splices

Connector size				TBM6H		TBM6PCR-LI, TBM62PCR-LI, TBM62CR-LI, TBM6UNICR-LI				TBM15CR-LI/ TBM15I***	
Code copper (AWG or kcmil)	Flex/24	Al/Cu (AWG or kcmil)	Color code	Die cat. no.	Die code no.	Die cat. no.	Die code no.	Hex-Flex die cat. no.	Hex-Flex die code no.	Die cat. no.	Die code no.
8	37/24	#10	Red	6TON21SS	21	6TON21SS	21	6TON21XSS	21X	15520SS	21
6	61/24	#8	Blue	6TON24SS	24	6TON24SS	24	6TON24XSS	24X	15522SS	24
4	91/24	#6	Grey	6TON29SS	29	6TON29SS	29	6TON29XSS	29X	15527SS	29
2	125/24	–	Brown	6TON33SS	33	6TON33SS	33	6TON33XSS	33X	15528SS	33
1	150/24	#4	Green	6TON37SS	37	6TON37SS	37	6TON37XSS	37X	15513SS	37
1/0	225/24	#2	Pink	6TON42SS	42	6TON42SS	42	6TON42XSS	42X	15508SS	42
2/0	275/24	–	Black	6TON45SS	45	6TON45SS	45	6TON45XSS	45X	15526SS	45
3/0	325/24	–	Orange	6TON50SS	50H	6TON50SS	50H	6TON50XSS	50X	15530SS	50
4/0	450/24	–	Purple	6TON54SS	54H	6TON54SS	54H	6TON54XSS	54X	15511SS	54
250	550/24	–	Yellow	6TON62SS	62H	6TON62SS	62H	6TON62XSS	62X	15510SS	62
–	–	#1	Gold	6TON45SS	45	6TON45SS	45	–	–	15526SS	45
–	–	1/0	Tan	6TON50SS	50H	6TON50SS	50H	–	–	15530SS	50
–	–	2/0	Olive	6TON54SS	54H	6TON54SS	54H	–	–	15511SS	54
–	–	3/0	Ruby	6TON60SS	60H	6TON60SS	60H	–	–	15532SS	60
300	–	4/0	White	6TON66SS	66H	6TON66SS	66H	6TON66X	66X	15534SS	66
350	775/24 (Short)	250	Red	6TON71SS	71H	6TON71SS	71H	–	–	15514SS	71
400	775/24 (Long)	300	Blue	6TON76SS	76H	6TON76SS	76H	–	–	15512SS	76
–	925/24*	–	–	6TON80SS	80H	6TON80SS	80H	–	–	15517SS	80
–	–	–	–	–	–	–	–	–	–	15606	80
500	–	350	Brown	6TON87SS	87H	6TON87SS	87H	–	–	15506SS	87
600	1100/24	400	Green	6TON94SS	94H	6TON94SS	94H	–	–	15536SS	–
–	1325/24**	–	Pink	–	–	–	–	–	–	–	–
700	–	500	Pink	–	99H	–	–	–	–	15505SS	–
750	–	650	Black	–	106H	–	–	–	–	15515SS	–
800	–	–	Orange	–	107H	–	–	–	–	15540SS	–
–	–	700	Purple	–	112H	–	–	–	–	–	–
900	195/24	750	Yellow	–	115H	–	–	–	–	15504SS	–
1000	–	800	–	–	–	–	–	–	–	–	–
1250	–	1000	–	–	–	–	–	–	–	–	–
1500	–	–	–	–	–	–	–	–	–	–	–

* Standard barrel only. Long barrel requires Brown 87H.
** Standard barrel only. Long barrel requires Black 106H.
*** 15500 Series dies require 15500-TB adaptor. 15500F for full size die to fit TBM15I without adaptor.

Dies for standard lugs and splices (OD58)

Connector size				OD58	
Code copper (AWG or kcmil)	Flex/24	Al/Cu (AWG or kcmil)	Color-Keyed die colour	Die cat. no.	Die code no.
#8	37/24	#10	Red	BY15C	21
#6	61/24	#8	Blue	BY17C	24
#4	91/24	#6	Grey	BY19C	29
#2	125/24	–	Brown	BY21C	33
#1	150/24	#4	Green	BY53C	37
1/0	225/24	#2	Pink	BY23C	42
2/0	275/24	–	Black	BY28C	45

Connector size				OD58	
Code copper (AWG or kcmil)	Flex/24	Al/Cu (AWG or kcmil)	Color-Keyed die colour	Die cat. no.	Die code no.
3/0	325/24	–	Orange	BY25C	50
4/0	450/24	–	Purple	BY27C	54
250	550/24	–	Yellow	BY31C	62
–	–	#1	Gold	BY24C	45
–	–	1/0	Tan	BY25C	50
–	–	2/0	Olive	BY31C	54
–	–	3/0	Ruby	BY32C	60

Installing dies

Dies for lugs and splices

TBM12PCR-LI		TBM14M, TB14MC, 13100A, JB12A, TBM14CR-LI								TBM15I***, TBM15CR-LI		21940	
Die cat. no.	Die code no.	Die cat. no.	Die code no.	Die cat. no.	Die code no.	Full die cat. no.	Full die code no.	Hex-Flex die cat. no.	Hex-Flex die code no.	Hex-Flex full die cat. no.	Hex-Flex full die code no.	Die cat. no.	Die code no.
15520SS	21	15520XSS	21X	15520SS	21	15520F	21	15520XSS	21X	–	–	–	21
15522SS	24	15522XSS	24X	15522SS	24	15522F	24	15522XSS	24X	–	–	–	24
15527SS	29	15527XSS	29X	15527SS	29	15527F	29	15527XSS	29X	–	–	11401	29
15528SS	33	15528XSS	33X	15528SS	33	15528F	33	15528XSS	33X	–	–	11402	33
15513SS	37	15513XSS	37X	15513SS	37	15513F	37	15513XSS	37X	–	–	11333	37
15508SS	42	15508XSS	42X	15508SS	42	15508F	42	15508XSS	42X	–	–	11334	42
15526SS	45	15526XSS	45X	15526SS	45	15526F	45	15526XSS	45X	–	–	11405	45
15530SS	50	15530XSS	50X	15530SS	50H	15530F	50H	15530XSS	50X	–	–	11406	50
15511SS	54	15511XSS	54X	15511SS	54H	15511F	54H	15511XSS	54X	–	–	11407	54
15510SS	62	15110XSS	62X	15510SS	62H	15110F	62H	15510XSS	62X	15662X	62X	11340	62
15526SS	45	–	–	15526SS	45	–	45	–	–	–	–	11405	45
15530SS	50	–	–	15530SS	50H	–	50H	–	–	–	–	11406	50
15511SS	54	–	–	15511SS	54H	–	54H	–	–	–	–	11407	54
15532SS	60	–	–	15532SS	60H	15532F	60H	–	–	–	–	11408	60
15534SS	66	15534XSS	66X	15534SS	66H	15534XSS	66H	15534XSS	66X	15666X	66X	11409	66
15514SS	71	15514XSS	71X	15514SS	71H	15514XSS	71H	15514XSS	71X	15671X	71X	11363	71
15512SS	76	15512XSS	76X	15512SS	76H	15512XSS	76H	15512XSS	76X	15676X	76X	11410	76
15517SS	80H	15517XSS	80X	15517SS	80H	15517XSS	80H	15517XSS	80X	15606	80X	11423	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–
15506SS	87H	15506XSS	87X	15506SS	87H	15506XSS	87H	15506XSS	87X	15687X	87X	11364	87
15536SS	94H	15536XSS	84X	15536SS	94H	15536XSS	94H	15536XSS	94X	15611X	94X	–	94
–	–	–	–	–	–	–	–	–	–	–	–	–	–
15505SS	99H	–	–	15505SS	99H	15505F	–	–	–	15605X	99X	11424	99
15515SS	106H	–	–	15515SS	106H	15515F	–	–	–	15615X	106X	7450	106
15540SS	107H	–	–	–	–	15609	–	–	–	15608X	107X	11425	107
–	–	–	–	–	–	15504F	–	–	–	–	–	11426	112
15504SS	115H	–	–	15504SS	115H	–	–	–	–	15604X	115X	11308	115
–	–	–	–	–	–	15603	–	–	–	–	–	11416	125
–	–	–	–	–	–	15602	–	–	–	–	–	11418	140
–	–	–	–	–	–	15601	–	–	–	–	–	11419	150

Dies for C-taps

		TBM45S	TBM5/5S	TBM6/6S	TBM8/8S	TBM62PCR-LI/TBM6H	
Connector	Colour code	Nest colour	Die cat. no.	Die cat. no.	Die cat. no.	Die cat. no.	Die cat. no.
54705	Red	Red nest	13454	13475/13477	13461	TBM6221	6TON21SS
54710	Blue	Blue nest				TBM6224	6TON24SS
54715	Grey	Grey nest		13472/13476		TBM6229	6TON29SS
54720	Brown	Brown nest		13474/13477		TBM6233	6TON33SS
54725	Green	Green nest	13455		13462	TBM6237	6TON37SS
54730	Pink	–				TBM6242	6TON42SS
54735	Black					TBM6245	6TON45SS
54740	Orange					TBM6250	6TON50SS
54745	Purple		13456		13563	TBM6254	6TON54SS
54750	Yellow			13473/13478		TBM6262	6TON62SS

Installing dies

Dies for large C-taps

Connector	Colour code	13642M/13400 Die cat. no.	TBM12 Die cat. no.	13100A/JB12B/TBM14M/TBM14RH/TBM14CR-LI/TBM12CR-LI Die cat. no.	TBM15I/TBM15CR-LI Die cat. no.
54755	Blue	11744	TBM12D-4	15512SS	15512SS
54760	Brown	11746	TBM12D-3	15506SS	15506SS
54765	Pink	11748	TBM12D-2	15505SS	15505SS
54770	Black	11749	TBM12D-2	15515SS	15515SS
54775	Yellow	11753	TBM12D-1	15504SS	15504SS
54780	White	–	–	–	15603
54785	–	–	–	–	15603
54790	–	–	–	–	15603

Dies for aluminum H-taps

Connector	Colour code	TBM5/5S Die cat. no.	TBM6/6S Die cat. no.	TBM8/8S Die cat. no.	TBM12 Die cat. no.	TBM6H/TBM6PCR-LI Die cat. no.	13100A/JB12B/TBM14M/TBM14RH/TBM14CR-LI/TBM12CR-LI Die cat. no.	TBM15I/TBM15CR-LI Die cat. no.
63105	Orange	13455	13474/13477	13462	TBM12D-4	6TON50	15530SS	15530SS
63110	Green	–	13470	–	TBM12D-H	OJB	15501A	15501A
63118		–	13470	–	TBM12D-H	OJB	15501A	15501A
63125		–	13470	–	TBM12D-H	OJB	15501A	15501A
63140	Blue	–	13471	–	TBM12D-H	DBL	15502	15502
63148		–	13471	–	TBM12D-H	–	–	15502
63160	Red	–	–	–	–	–	–	15612
63169	Black	–	–	–	–	–	–	15620
63170		–	–	–	–	–	–	15620
63180		–	–	–	–	–	–	15620

Dies for copper H-taps

Connector	Colour code	TBM6H Die cat. no.	13100A/JB12B/TBM14M/TBM14CR-LI/TBM14RH/TBM14CR-LI/TBM12CR-LI Die cat. no.	TBM15CR-LI/TBM15I/TBM15CR-LI Die cat. no.
CHT814-10	Green	6TON37R	15CA37RCH	15CA37RCH
CHT214-9	Brown	6TON71R	15CA71RCH	15CA71RCH
CHT250214-8	Purple	–	15CA80RCH	15CA80RCH
CHT25014-7		–	–	–
CHT2502-6		–	–	–
CHT50010-5	Brown	–	–	15612CH
CHT50040-4		–	–	
CHT75010-3	Yellow	–	–	15620CH
CHT750350-2		–	–	–
CHT75040-11		–	–	–
CHT750350-1F	White	–	–	15620CHF

Dies for medium-voltage connectors (15 kV applications)

Die code no.	Copper conductor size (AWG or kcmil)	TBM12CR-LI, TBM15I, TBM14M, TBM14RH, TBM14CR-LI, TBM15CR-LI, 13100A, TBM12CR-LI, TBM14CR-LI, TBM15CR-LI Adaptor** type	Non-adaptor type	Round gauging
29R	#4	15CA29R	–	0,302/0,290
33R	#2	15CA33R	–	0,348/0,336
37R	#1	15CA37R	–	0,394/0,382
42R	1/0	15CA42R	–	0,432/0,420
45R	2/0	15CA45R	–	0,472/0,460
49R	3/0	15CA49R	–	0,522/0,510
54R	4/0	15CA54R	–	0,576/0,564
60R	250	15CA60R	–	0,604/0,592
66R	300	15CA66R	–	0,680/0,668
71R	350	15CA71R	–	0,730/0,718
76R	400	15CA76R	–	0,790/0,778
87R	500	15CA87R	–	0,904/0,892
94R	600	15CA94R***	–	0,958/0,946
106R	750	15CA106R***	–	1,042/1,030
125R	1,000	–	15C125R*	1,298/1,286

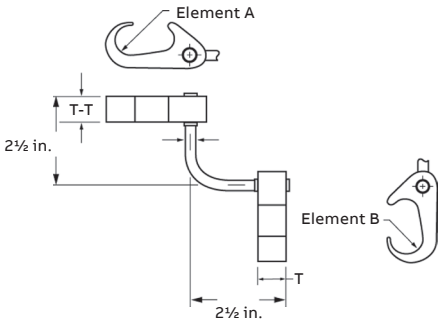
*To be used with TBM15I or TBM15CR-LI tools.
**Use 15500-TB adaptor with TBM15I tool.
***Not UL Listed for use in TBM14M/13100A tools.

Installing dies

Dies for figure 6 to 6 ground connectors

Connector	Cable Element A (AWG or kcmil)	To cable Element B (AWG or kcmil)	To ground rod Element B	To rebar Element B	Die selection Element A	Die selection Element B
54855L	#6 Sol. – #2 Str.	#6 Sol. – #2 Str.	–	–	15501A	15501A
54865L	#1 Str. – 250	#6 Sol. – #2 Str.	½ in. – ⅝ in.	⅜ in. – ½ in. #3 – #4	15G86R	15501A
54875L	#2 Str. – 250	#2 Str. – 250	½ in. – ⅝ in.	⅜ in. – ½ in. #3 – #4	15G86R	15G86R
54885L	250 – 500	#6 Sol. – #2 Str.	⅝ in. – ¾ in.	⅝ in. – ¾ in. #3 – #4	15G126R	15501A
54895L	250 – 500	#2 Str. – 250	⅝ in. – ¾ in.	⅝ in. – ¾ in. #3 – #4	15G126R	15G86R
54900L	250 – 500	#2 Str. – 250	⅝ in. – ¾ in.	⅝ in. – ¾ in. #3 – #4	15G121R	15G121R

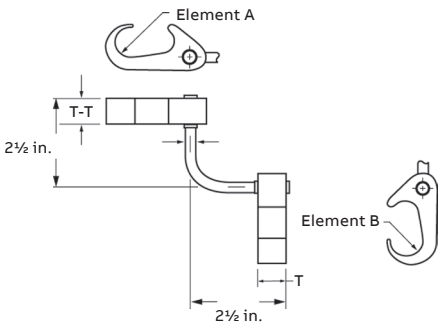
Diagram



Dies for figure 6 to 6 ground connectors and cross reference

Cat. no.	Dies for ABB 14- and 15-ton tools: Element A *	Dies for ABB 14- and 15-ton tools: Element B *	Burndy tools and dies: Y750 A *	Burndy tools and dies: Y750 B *	Burndy tools and dies: Y45 A *	Burndy tools and dies: Y45 B *	Burndy tools and dies: Y46 A *	Burndy tools and dies: Y46 B *
54900L	15G121R 3	15G121R 3	U1011 3	U1011 3	S1011 3	S1011 3	P1011 3	P1011 3
54895L	15G86R 1	15G126R 1	PU998 or PU998 1	U997 1	S998 or PU998 1	U997 1	P998 1	U997 1
54885L	15501A 1	15G126R 1	PU998 or PU998 1	U-0 or PU998 1	S998 1	U-0 1	P998 1	U-0 1
54875L	15G86R 1	15G86R 1	U997 1	U997 1	U997 1	U997 1	U997 1	U997 1
54865L	15501A 1	15G86R 1	U997 1	U-0 1	U997 1	U-0 1	U997 1	U-0 1
54855L	15501A 1	15501A 1	U-0 1	U-0 1	U-0 1	U-0 1	U-0 1	U-0 1

Diagram



* = Number of crimps
Use 15500-TB adaptor for ABB 15-ton tool.

Installing dies

Dies for figure 6 ground connectors and cross references

Cat. no.	Dies for ABB 14- and 15-ton tools [*]	Burndy tools and dies Y750 [*]	Y45 [*]	Y46 [*]
54900	15G121R [3]	U1011 [3]	S1011 [3]	P1011 [3]
54895	15G126R [1]	PU998 [1]	PU996 or S998 [1]	PU996 or S998 [1]
54890	15G126R [1]	PU998 [1]	PU996 or S998 [1]	PU996 or S998 [1]
54885	15G126R [1]	PU998 [1]	PU996 or S998 [1]	PU996 or S998 [1]
54875	15501A [1]	UO [1]	UO [1]	UO [1]
54865CK	15G86R [1]	997 [1]	U997 [1]	U997 [1]
54860	15G86R [1]	997 [1]	U997 [1]	U997 [1]
54855	15G86R [1]	997 [1]	U997 [1]	U997 [1]

[*] = Number of crimps
Use 15500-TB adaptor for ABB 15-ton tool.

Cat. no.	Application Main	Tap (AWG or kcmil)	Dies for ABB tools (Figure 2)	L (in.)
54865-CKN*	⅝ in. rod	3/0 str. – 250	15506SS	1½
54860N	⅝ in. rod	1/0 str. – 2/0 str.	15506SS	1½
54855N	⅝ in. rod	#4 sol. – #2 str.	15506SS	1½
54875N	#6 sol. – #2 str.	#6 sol. – #2 str.	15517SS	1½

Diagrams

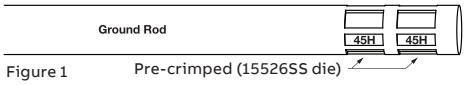


Figure 1

Important: For 54865-CKN Only. To be in compliance with IEEE837-2014, the ground rod should be pre-crimped with die 15526SS (45H) as shown in Figure 1.

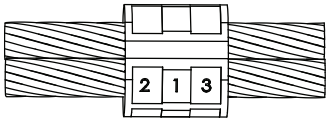
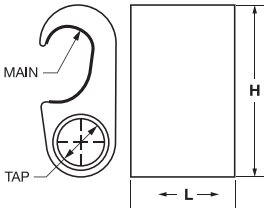


Figure 2 – Requires 3 crimps



* See Figure 1
All parts ending by the letter N are IEEE837-2014 compliant.
Use hydraulic tool 13100A, TBM14M TBM14CR-LI, TBM15CR-LI, TBM15, or TBM15I with die indicated in chart.

Dies for figure 8 ground connectors and cross references

Cat. no.	Cable range (AWG or kcmil)	Dies for ABB 14- and 15-ton tools [*]	Burndy tools and dies Y750 [*]	Y45 [*]	Y46 [*]
GR1-300500*	300–500	15G121R [2]	U1011 [2]	S1011 [2]	P1011 [2]
GR34-300500 & TP*	300–500	15G121R [2]	U1011 [2]	S1012 [2] or PU998 [1]	P1011 [2] or PU998 [1]
GR58-30050 & TP	300–500	15G121R [2]	PU998 [1]	S1012 [2] or PU998 [1]	P1011 [2] or PU998 [1]
GR1-40250*	4/0–250	15G121R [2]	U1011 [2]	S1011 [2] S1012 [2] or PU998 [1]	P1011 [2] or PU998 [1]
GR34-40250 & TP*	4/0–250	15G121R [2]	PU998 [1]	S1012 [2] or PU998 [1]	P1011 [2] or PU998 [1]
GR58-40250 & TP	4/0–250	15G121R [2]	PU998 [1]	S1012 [2] or PU998 [1]	P1011 [2] or PU998 [1]
GR12-40250 & TP	4/0–250	15G121R [2]	PU998 [1]	S1012 [2] or PU998 [1]	P1011 [2] or PU998 [1]
GR1-202*	2–2/0	15G121R [2]	U1011 [2]	S1011 [2] S1012 [2] or PU998 [1]	P1011 [2] or PU998 [1]
GR34-202 & TP	2–2/0	15G121R [2]	PU998 [1]	S1012 [2] or PU998 [1]	P1011 [2] or PU998 [1]
GR58-202 & TP	2–2/0	15G121R [2]	PU998 [1]	S1012 [2] or PU998 [1]	P1011 [2] or PU998 [1]
GR12-202 & TP	2–2/0	15G121R [2]	PU998 [1]	S1012 [2] or PU998 [1]	P1011 [2] or PU998 [1]

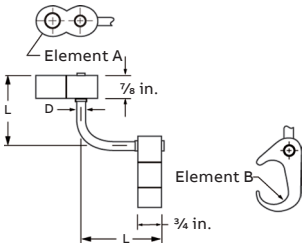
[*] = Number of crimps
Optional ground rod knurling die for TBM 14- and 15-ton tools: 15508
Use 15500-TB adaptor for ABB 15-Ton tool.
Optional ground rod knurling tool: 240-31565-94
*Use 15-ton tool only.

Installing dies

Dies for figure 6 to 8 ground connectors and cross reference

Cat. no.	Dies for ABB 14- and 15-ton tools: Element A [*]	Element B [*]	Burndy tools and dies: Y750 A [*]	Y750 B [*]	Y45 A [*]	Y45 B [*]	Y46 A [*]	Y46 B [*]
54920LR100	15G121R [2]	15G126R [1]	U1011 [2] or PU998 [1]	U1011 [2] or PU998 [1]	S1011 [2] or PU998 [1]	U1011 [2] or PU998 [1]	P1011 [2] or PU998 [1]	U1011 [2] or PU998 [1]
54910LR100	15G121R [2]	15G86R [1]	U1011 [2] or PU998 [1]	U997 [1]	S1011 [2] or PU998 [1]	U997 [1]	P1011 [2] or PU998 [1]	U997 [1]
54900L34 & TP	15G121R [2]	15G126R [1]	U1011 [2] or PU998 [1]	U1011 [2] or PU998 [1]	S1011 [2] or PU998 [1]	U1011 [2] or PU998 [1]	P1011 [2] or PU998 [1]	U1011 [2] or PU998 [1]
54875L34 & TP	15G121R [2]	15G86R [1]	U1011 [2] or PU998 [1]	U997 [1]	S1011 [2] or PU998 [1]	U997 [1]	P1011 [2] or PU998 [1]	P998 or PU998 [1]
54895LR58 & TP	15G121R [2]	15G126R [1]	U1011 [2] or PU998 [1]	U1011 [2] or PU998 [1]	S1011 [2] or PU998 [1]	S998 or PU998 [1]	P1011 [2] or PU998 [1]	U997 [1]
54865L58 & TP	15G121R [2]	15G86R [1]	U1011 [2] or PU998 [1]	U1011 [2] or PU998 [1]	S1011 [2] or PU998 [1]	U997 [1]	P1011 [2] or PU998 [1]	P998 or PU998 [1]
54885LR12 & TP	15G121R [2]	15R126R [1]	U1011 [2] or PU998 [1]	U1011 [2] or PU998 [1]	S1011 [2] or PU998 [1]	S998 or PU998 [1]	P1011 [2] or PU998 [1]	P998 or PU998 [1]
54855LR12 & TP	15G121R [2]	15G86R [0]	U1011 [2] or PU998 [1]	U1011 [2] or PU998 [1]	S1011 [2] or PU998 [1]	U997 [1]	P1011 [2] or PU998 [1]	U997 [1]

Diagram



[*] = Number of crimps
Optional ground rod knurling die for TBM 14- and 15-ton tools: 15508. Use 15500-TB adaptor for ABB 15-ton tool. Optional ground rod knurling tool: 240-31565-94
*Use 15-ton tool only.

Cat. no.	Ø A Cable (AWG or kcmil)	Ø B Cable (AWG or kcmil)	H (in.)	L (in.)	Crimps	Dies for tools
CTP250250N	3/0 str. – 250	3/0 str. – 250	2 1/16	1½	3	15506SS
CTP25020N	3/0 str. – 250	#1 str. – 2/0 str.	1 31/32	1½	3	15506SS
CTP2020N	#1 str. – 2/0 str.	#1 str. – 2/0 str.	1 9/16	1½	3	15517SS
CTP202N	#1 str. – 2/0 str.	#6 sol. – #2 str.	1 13/32	1½	3	15517SS
CTP22N	#6 sol. – #2 str.	#6 sol. – #2 str.	1 5/32	1½	3	15514SS

Diagrams

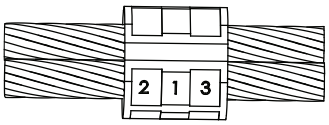
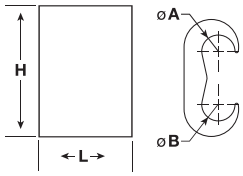


Figure 1 – Requires 3 crimps



All parts ending by the letter N are IEEE837-2014 compliant.
Use hydraulic tool 13100A, TBM14M TBM14CR-LI, TBM15CR-LI, TBM15, or TBM15I with die indicated in chart.
Must use TBM15, TBM15CR-LI, or TBM15I tool only. (See Figure 1)

Dies for C-taps and cross references

Cat. no.	Dies for ABB 14- and 15-ton tools [*]	Burndy tools and dies: Y750 [*]	Y45 [*]	Y46 [*]
CTP500500	15G121R [3]	U1011 [3]	U1011 [3]	U1011 [3]
CTP500250	15G121R [2]	U1011 [2]	U1011 [2]	U1011 [2]
CTP50020				
CTP250250	15G86R [1]	U997 [1]	U997 [1]	U997 [1]
CTP25020				
CTP2020	15501A [1]	U-0 [1]	U-0 [1]	U-0 [1]
CTP202				
CTP22**	HBKC [1]	U-C [1]	U-C [1]	U-C [1]

[*] = Number of crimps
*Cat. no. 15500-TB adaptor required if using ABB 15-ton tool with 155XX series dies.
**#6 AWG branch must be doubled.

Knurling die for 14- and 15-ton tools*

Used to knurl ground rods in order to increase the pullout value of the compression connection by as much as 20%.

240-31565-94

Cat no.	Description
15508SS	For 3/4 in. ground rods

*Hand knurling tool for all ground rods

Installing dies

HEX-FLEX™ dies

Dies for 14-ton tools: TBM14CR-LI		Connector size (AWG or kcmil)			Die colour
Cat no.	Code no.	Flex/24	Code copper	Al/Cu	
15520XSS	21X	37/24	#8	#10	Red
15522XSS	24X	61/24	#6	#8	Blue
15527XSS	29X	91/24	#4	#6	Grey
15528XSS	33X	125/24	#2	–	Brown
15513XSS	37X	150/24	#1	#4	Green
15508XSS	42X	225/24	1/0	#2	Pink
15526XSS	45X	275/24	2/0	–	Black
15530XSS	50X	325/24	3/0	–	Orange
15511XSS	54X	450/24	4/0	–	Purple
15510XSS	62X	550/24	250	–	Yellow
15534XSS	66X	–	300	4/0	White
15514XSS	71X	775/24 (short)	350	250	Red
15512XSS	76X	775/24 (long)	400	300	Blue
15517XSS	80X	925/24	–	–	–
15506XSS	87X	–	500	350	Brown
15536XSS	94X	1,100/24	600	400	Green
15500XSS	Indentor	–	–	–	–

* HEX-FLEX™ dies are sold individually, not in sets.
Each die must be used in conjunction with indentor 15500XSS.

Aluminum H-tap dies

Cat no.	Connector	Colour code
15530SS	63105	Orange
15501A	63110	Green
15501A	63118	
15501A	63125	
15502	63140	Blue
15502	63148	

Copper H-tap dies

Cat no.	Connector	Colour code
15CA37RCH	CHT814-10	Green
15CA71RCH	CHT214-9	Brown
15CA80RCH	CHT250214-8	Purple
15CA80RCH	CHT25014-7	
15CA80RCH	CHT2502-6	

Standard dies

Dies for 14-ton tools: TBM14CR-LI		Connector size (AWG or kcmil)			Die colour
Cat no.	Code no.	Flex/24	Code copper	Al/Cu	
15520SS	21	37/24	#8	#10	Red
15522SS	24	61/24	#6	#8	Blue
15527SS	29	91/24	#4	#6	Grey
15528SS	33	125/24	#2	–	Brown
15513SS	37	150/24	#1	#4	Green
15508SS	42	225/24	1/0	#2	Pink
15526SS	45	275/24	2/0	–	Black
15530SS	50	325/24	3/0	–	Orange
15511SS	54	450/24	4/0	–	Purple
15510SS	62	550/24	250	–	Yellow
15526SS	45	–	–	#1	Gold
15530SS	50	–	–	1/0	Tan
15532SS	60	–	–	2/0	Olive
15511SS	54	–	–	3/0	Ruby
15534SS	66H	–	300	4/0	White
15514SS	71H	775/24 (Short)	350	250	Red
15512SS	76H	775/24 (Long)	400	300	Blue
15517SS	80H	925/24	–	–	–
15506SS	87H	–	500	350	Brown
15536SS	94H	–	–	–	Green
15505SS	99H	1,325/24	700	500	Pink
15515SS	106H	–	750	650	Black
15504SS	115H	1,925/24	900	750	Yellow

Large C-tap dies

Cat no.	Connector	Colour code
15512SS	54755	Blue
15506SS	54760	Brown
15505SS	54765	Pink
15515SS	54770	Black
15504SS	54775	Yellow

Installing dies

Tool die selection chart
This chart does not apply to catalogue series 61905-61975, 61102-61178, IBG2-10, IBG20-40, 63105-63180, 53000, 52000 and 15 kV copper and aluminum connectors.

For installation die information, see pages illustrating these connector series.

On some sizes, for special flexible strandings, consult your regional sales office.

All colour-coded die series require die adapter 15500TB for TBM15 tools only.

Connector size (AWG or kcmil) Copper	Al/Cu	Die colour code	TBM45S	TBM4S	TBM840	TBM8-750/-1	OD58 Die cat. no.	JB12B Die cat. no.
#8	#10	Red	↑	↑	↑	↑	BY15C	B71CH
#6	#8	Blue	↕	↕	↕	↕	BY17C	B73CH
#4	#6	Grey	↕	↕	↕	↕	BY19C	B74CH
#2	–	Brown	↓	↕	↕	↕	BY21C	B75CH
#1	#4	Green	–	↕	↕	↕	BY53C	B05CH
1/0	#2	Pink	–	↕	↕	↕	BY23C	B06CH1
2/0	–	Black	–	↕	↕	↕	BY28C	B72CH
3/0	–	Orange	–	↕	↕	↕	BY25C	B08CH
4/0	–	Purple	–	↕	↕	↕	BY31C	B09CH
250	–	Yellow	–	↓	↓	↕	–	B26CH
–	#1	Gold	–	–	–	↕	–	–
–	1/0	Tan	–	–	–	↕	–	–
–	2/0	Olive	–	–	–	↕	–	B09CH
–	3/0	Ruby	–	–	–	↕	–	–
300	4/0	White	–	–	–	↕	–	B10CH1
350	250	Red	–	–	–	↕	–	B11CH
400	300	Blue	–	–	–	↕	–	B11CH
925/24	–	Black	–	–	–	↕	–	–
500	350	Brown	–	–	–	↕	–	B12CH
600	400	Green	–	–	–	↕	–	B36CH
–	–	Green	–	–	–	↕	–	–
700	500	Pink	–	–	–	↕	–	B76CH
750	650	Black	–	–	–	↓	–	B39CH
800	–	Orange	–	–	–	–	–	–
–	700	Purple	–	–	–	–	–	–
900	750	Yellow	–	–	–	–	–	6024 AH
1,000	800	–	–	–	–	–	–	–
–	1,000	–	–	–	–	–	–	6030 H

Installing dies

Tool die selection chart

Connector size (AWG or kcmil)		Die colour code	TBM6PCR-LI/TBM6H		TBM14CR-LI/14M/13100A		*TBM15CR-LI		21940 (40-ton)	
Copper	Al/Cu		Die cat. no.	Die code no.	Die cat. no.	Die code no.	Die cat. no.	Die code no.	Die cat. no.	Die code no.
#8	#10	Red	6TON21SS	21	B71CH	21	B71CH	21	–	21
#6	#8	Blue	6TON24SS	24	B73CH	24	B73CH	24	–	24
#4	#6	Grey	6TON29SS	29	B74CH	29	B74CH	29	11401	29
#2	–	Brown	6TON33SS	33	B75CH	33	B75CH	33	11402	33
#1	#4	Green	6TON37SS	37	B05CH	37	B05CH	37	11333	37
1/0	#2	Pink	6TON42SS	42	B06CH	42	B06CH1	42	11334	42
2/0	–	Black	6TON45SS	45	B72CH	45	B72CH	45	11405	45
3/0	–	Orange	6TON50SS	50	B08CH	50	B08CH	50	11406	50
4/0	–	Purple	6TON54SS	54	B09CH	54	B09CH	54H	11407	54H
250	–	Yellow	6TON62SS	62	B26CH	62	B26CH	62	11340	62
–	#1	Gold	6TON45SS	45	B72CH	45	B72CH	45	11405	45
–	1/0	Tan	6TON50SS	50	B08CH	50	B08CH	50	11406	50
–	2/0	Olive	6TON54SS	54	–	54	B09CH	54	11407	54
–	3/0	Ruby	6TON60SS	60	–	60	–	60	11408	60
300	4/0	White	6TON66SS	66H	B10CH1	66H	B10CH1	66H	11409	66
350	250	Red	6TON71SS	71H	B11CH	71H	B11CH	71H	11363	71
400	300	Blue	6TON76SS	76H	–	76H	B11CH	76H	11410	76
925/24	–	Black	6TON80SS	80H	–	80H	–	80H	–	–
–	–		–	–	–	–	–	80	–	–
500	350	Brown	6TON87SS	87H	B12CH	87H	B12CH	87H	11423	87
600	400	Green	6TON94SS	94H	–	–	B36CH	94H	11364	94
–	–		–	–	–	–	–		–	–
700	500	Pink	–	99H	–	–	B76CH	99H	11424	99
750	650	Black	–	106H	B39CH	–	B39CH	106H	74506	106
800	–	Orange	–	107H	–	–	–	107H	11425	107
–	700	Purple	–	112H	–	–	–	112H	11426	112
900	750	Yellow	–	115H	–	–	–	115H	11308	115
1,000	800	–	–	–	–	–	–	125H	11416	125
–	1,000		–	–	–	–	–	140H	11418	140
–	–		–	–	–	–	–	150H	11419	150

*Colour-coded dies require 15500TB adapter when used with TBM15CR-LI tool.

Installing dies

Tool and die index for copper compression connectors, short barrel — Types CTL, CTL-2 and CSP

		Blackburn tools						Burndy tools				Anderson tools						ABB tools			
Standard copper wire size (AWG or kcmil)	Die colour code	Mech. OD58	Crimps per end	Mech. HM-250 Tool	Crimps per end	Hyd. JB12B	Crimps per end	Mech. MY29-3	Crimps per end	Hyd. Y35, Y39, Y46	Crimps per end	Mech. TBM5S	Crimps per end	Mech. TBM8S	Crimps per end	Hyd. TBM15	Crimps per end	Cu wire range	Crimps per end VC6†, VC6F†	Crimps per end VC7†, VC7F†	Crimps per end VC8C††
#8	Red	7/32	3	**	1	B71CH	1	**	1	–	–	13454	2	13461	2	21	2	–	–	–	–
#6	Blue	J 1/4	3	**	1	B73CH	1	**	1	U5CRT	2	13454	2	13461	2	24	2	–	–	–	–
#4	Grey	5/16	3	**	1	B74CH	1	**	1	U4CRT	2	13454	2	13461	2	29	2	–	–	–	–
#3	White	–	–	**	2	–	–	**	2	U3CRT	2	–	–	–	–	–	–	–	–	–	–
#2	Brown	3/8	4	**	2	B75CH	1	**	2	U2CRT	2	13454	2	13461	2	33	2	6-2	1*	2	–
#1	Green	P	4	**	2	B05CH	1	**	2	U1CRT	2	13455	3	13462	3	37	2	6-1	1	2	–
1/0	Pink	1/2	4	**	2	B06CHI	2	**	2	U25RT	2	13455	3	13462	3	42H	3	6-1/0	1	2	–
2/0	Black	17/32	4	**	2	B72CH	1	**	2	U26RT	2	13455	3	13462	3	45	2	4-2/0	1	2	–
3/0	Orange	9/16	4	**	2	B08CH	1	**	2	U27RT	2	13455	4	13462	4	50	2	2-3/0	2	2	–
4/0	Purple	5/8-1	4	**	2	B09CH	2	**	2	U28RT	2	13456	4	13463	4	54H	3	1-4/0	2	2	–
250	Yellow	11/16	4	**	2	B26CH	2	**	2	U29RT	2	13456	4	13463	4	62	2	1/0-250†	2	2	–
300	White	–	–	–	–	B10CHI B10CH	2	–	–	U30RT	2	–	–	13465	4	66	2	2/0-300†	2	2	–
350	Red	–	–	–	–	B11CH	2	–	–	U31RT	2	–	–	13465	4	71H	3	3/0-350†	2	3	–
400	Blue	–	–	–	–	B11CH	2	–	–	U32RT	3	–	–	13467	4	76	2	4/0-400†	2	3	–
500	Brown	–	–	–	–	B12CHI B12CH	2	–	–	U34RT	3	–	–	13468	5	87H	3	4/0-500†	2	3	–
600	Green	–	–	–	–	B36CH[1]	3	–	–	U36RT[3]	3	–	–	–	–	94H	3	250-600	–	3 VC7F† only	–
750	Black	–	–	–	–	B36CH[1]	3 1	–	–	U39RT[3]	3	–	–	–	–	106H	3	500-750	–	4 VC7F† only	2
1,000	–	–	–	–	–	–	1	–	–	P44RT[4]	4	–	–	–	–	125H	4	750-1,000	–	–	2

* CSA Listed range 4-2 with YC6 and VC6FT.
** Adjustable indent tool. No insert dies required.
[1] HCT7508-12, HCT1239, HCT7508H only.
[3] Y39, Y46 only.
[4] Y46 only.
† Users of VC6 and VC7 tools must strip off an extra 1⅝ in. of insulation from end of cable to permit removal of tool over conductor sizes 250 kcmil and larger on CSP connectors.
†† Also use VC8 tool with aluminum nibs.

Installing dies

Tool and die index for copper compression connectors, long barrel — Types CTL-L, LCN and CU

		Blackburn tools						Burndy tools				Anderson tools						ABB tools			
Standard copper wire size (AWG or kcmil)	Die colour code	Mech. OD58	Crimps per end	Mech. HM-250 Tool	Crimps per end	Hyd. JB12B	Crimps per end	Mech. MY29-3	Crimps per end	Hyd. Y35, Y39, Y46	Crimps per end	Mech. TBM5S	Crimps per end	Mech. TBM8S	Crimps per end	Hyd. TBM15	Crimps per end	Cu wire range	Crimps per end VC6†, VC6F†	Crimps per end VC7†, VC7F†	Crimps per end VC8C††
#8	Red	7/32	4	**	2	B71CH	2	**	2	–	–	13454	2	13461	2	21	3	–	–	–	–
#6	Blue	J 1/4	4	**	2	B73CH	2	**	2	U5CRT	2	13454	2	13461	2	24	3	–	–	–	–
#4	Grey	5/16	4	**	2	B74CH	2	**	2	U4CRT	2	13454	2	13461	2	29	3	–	–	–	–
#3	White	–	–	**	3	–	–	**	2	U3CRT	2	–	–	–		–	–	–	–	–	–
#2	Brown	3/8	5	**	3	B75CH	2	**	3	U2CRT	2	13454	2	13461	3	33	3	6-2	2	4	–
#1	Green	P	5	**	3	B05CH	2	**	3	U1CRT	2	13455	4	13462	4	37	3	6-1	2	5	–
1/0	Pink	1/2	5	**	3	B06CHI	2	**	3	U25RT	2	13455	4	13462	4	42H	4	6-1/0	2	5	–
2/0	Black	17/32	5	**	3	B72CH	2	**	3	U26RT	2	13455	4	13462	6	45	3	4-2/0	2	5	–
3/0	Orange	9/16	5	**	4	B08CH	2	**	4	U27RT	3	13455	6	13462		50	3	2-3/0	3	6	–
4/0	Purple	5/8-1	6	**	4	B09CH	3	**	4	U28RT	3	13456		13463		54H	5	1-4/0	3	6	–
250	Yellow	11/16	6	**	4	B26CH	3	**	4	U29RT	3	13456		13463		62	3	1/0-250†	3	6	–
300	White	–	–	–	–	B10CHI B10CH	3	–	–	U30RT	3	–	–	13465		66	3	2/0-300†	3	6	–
350	Red	–	–	–	–	B11CH	3	–	–	U31RT	4	–	–	13465		71H	4	3/0-350†	3	6	–
400	Blue	–	–	–	–	B11CH	4	–	–	U32RT	4	–	–	13467		76	3	4/0-400†	3	6	–
500	Brown	–	–	–	–	B12CHI B12CH	4	–	–	U34RT	5	–	–	13468	8	87H	4	4/0-500†	3	6	2††
600	Green	–	–	–	–	B36CH[1]	6	–	–	U36RT[3]	5	–	–	–	–	94H	4	250-600	–	8 VC7F† only	3†††
750	Black	–	–	–	–	B36CH[1]	6 2	–	–	U39RT[3]	6	–	–	–	–	106H	6	500-750	–	9 VC7F† only	4
1,000	–	–	–	–	–	–	2	–	–	P44RT[4]	6	–	–	–	–	125H	5	750-1,000	–	–	2

** Adjustable indent tool. No insert dies required.
[1] HCT7508-12, HCT1239, HCT7508H only.
[3] Y39, Y46 only.
[4] Y46 only.
† Users of VC6 and VC7 tools must strip off an extra 1⅝ in. of insulation from end of cable to permit removal of tool over conductor sizes 250 kcmil and larger on Cu connectors.
†† Also use VC8 tool with aluminum nibs.
††† VC8 tool crimps 500 kcmil only.
†††† VC8 tool crimps 500-600 kcmil only.

Installing dies

Tool and die index for copper compression connectors for flexible rope stranded or flexible stranded tinned copper locomotive conductor welding cable and portable cord, short barrel — Types CTL, CTL-2 and CSP

Conductor type						Blackburn tools				Burndy tools		ABB tools		Anderson tools			
Flex standard size	Locomotive stranding	Welding cable	Portable cord	Stranded Cu size (AWG or kcmil)	Die colour code	Hyd. JB12B	Crimps per end	Mech. MY29-11	Crimps per end	Hyd. Y35, Y39, Y46	Crimps per end	Hyd. TBM15	Crimps per end	Cu wire range for locomotive cable	Crimps per end VC6[†], VC6F[†]	Crimps per end VC7[†], VC7F[†]	Crimps per end VC8C[††]
6	37/24	–	8	#8	Red	B71CH	1	**	1	–	–	21	2	–	–	–	–
6	61/24	6	6	#6	Blue	B73CH	1	**	1	U5CD-1 Y34PR3	1	24	2	–	–	–	–
5	91/24	–	–	#4	Grey	B74CH	1	**	1	U4CD-1 Y34PR	1	29	2	–	–	–	–
4	105/24	4	4	#3	White	–	–	**	2	U3CD-1 Y34PR	1	–	–	–	–	–	–
3	125/24	3	3	#2	Brown	B75CH	1	**	2	U2CD-1 Y34PR	1	33	2	4-3	1	2	–
2	150/24	2	2	#1	Green	B05CH	1	**	2	U1CD-1 Y34PR	1	37	2	4-2	1	2	–
1	225/24	1	1	1/0	Pink	B06CHI	2	**	2	U250-1 Y34PR	1	42H	3	4-1	1	2	–
1/0	275/24	1/0	1/0	2/0	Black	B72CH	1	**	2	U26CD-1 Y34PR	1	45	2	4-1/0	1	2	–
2/0	325/24	2/0	2/0	3/0	Orange	B08CH	1	**	2	U270-1 Y34PR	2	50	2	2-2/0	2	2	–
–	–	3/0	3/0	4/0	Purple	B09CH	2	**	2	U280-1 Y34PR	2	54H	3	–	–	–	–
3/0	450/24	4/0	–	250	Yellow	B26CH	2	**	2	U290-1 Y34PR3	2	62	2	1/0-3/0[†]	2	2	–
4/0	550/24	–	4/0	300	White	B12CHI B12CH	2	–	–	U300-1 Y34PR3	2	66	2	2/0-4/0[†]	2	–	–
263	650/24	–	–	300	Red	B11CH	2	–	–	U310-1 Y34PR3	2	71H	3	3/0-263[†]	2	3	–
313	775/24	–	–	400	Blue	B11CH	2	–	–	Y320-1 Y34PRU3	2	76	2	4/0-313[†]	2	3	–
373	925/24	–	–	500	Brown	B10CHI B10CH	2	–	–	U340-1 Y34PR3	–	87H	3	4/0-373[†]	2	3	2[†††]
444	1100/24	–	–	600	Green	B36CH	3	–	–	C360 Y46PR4	2	94H	3	262-444	–	3 VC7F[†] only	2[†††]
535	1325/24	–	–	750	Black	B39CH[†]	1	–	–	C390 Y46PR4	2	106H	3	373-535	–	4 VC7F[†] only	2
646	1600/24	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
777	1925/24	–	–	1,000	–	–	1	–	–	C440 Y46PR4	2	125H	4	535-777	–	–	2

** Adjustable indent tool. No insert dies required.
[1] HCT7508-12, HCT1239, HCT7508H only.
[3] Y39, Y46 only.
[4] Y46 only.
[†] Users of VC6 and VC7 tools must strip off an extra 1⅝ in. of insulation from end of cable to permit removal of tool over conductor sizes 250 kcmil and larger on Cu connectors.
[††] Also use VC8 tool with aluminum nibs.
[†††] VC8 tool crimps 500 kcmil only.
[††††] VC8 tool crimps 500-600 kcmil only.

Installing dies

Tool and die index for copper compression connectors, long barrel — Types CTL-L, LCN and CU

Conductor type						Blackburn tools				Burndy tools		ABB tools		Anderson tools			
Flex standard size	Locomotive stranding	Welding cable	Portable cord	Stranded Cu size (AWG or kcmil)	Die colour code	Hyd. JB12B	Crimps per end	Mech. MY29-11	Crimps per end	Hyd. Y35, Y39, Y46	Crimps per end	Hyd. TBM15	Crimps per end	Cu wire range for locomotive cable	Crimps per end VC6[†], VC6F[†]	Crimps per end VC7[†], VC7F[†]	Crimps per end VC8C[††]
8	37/24	–	8	#8	Red	B71CH	2	**	2	–	–	21	2	–	–	–	–
6	61/24	6	6	#6	Blue	B73CH		**	2	U5CD-1 Y34PR3	2	24	2	–	–	–	–
5	91/24	–	–	#4	Grey	B74CH		**	2	U4CD-1 Y34PR	2	29	2	–	–	–	–
4	105/24	4	4	#3	White	–	–	**	3	U3CD-1 Y34PR	2	–	–	–	–	–	–
3	125/24	3	3	#2	Brown	B75CH	2	**	3	U2CD-1 Y34PR	2	33	2	4-3	1	2	–
2	150/24	2	2	#1	Green	B05CH	2	**	3	U1CD-1 Y34PR	2	37	2	4-2	1	2	–
1	225/24	1	1	1/0	Pink	B06CHI	3	**	3	U250-1 Y34PR	2	42H	3	4-1	1	2	–
1/0	275/24	1/0	1/0	2/0	Black	B72CH	2	**	3	U26CD-1 Y34PR	2	45	2	4-1/0	1	2	–
2/0	325/24	2/0	2/0	3/0	Orange	B08CH	2	**	4	U270-1 Y34PR	2	50	2	2-2/0	2	2	–
–	–	3/0	3/0	4/0	Purple	B09CH	3	**	4	U280-1 Y34PR	3	54H	3	–	–	–	–
3/0	450/24	4/0	–	250	Yellow	B26CH	3	**	4	U290-1 Y34PR3	3	62	2	1/0-3/0[†]	2	2	–
4/0	550/24	–	4/0	300	White	B12CHI B12CH	3	–	–	U300-1 Y34PR3	3	66	2	2/0-4/0[†]	2	–	–
263	650/24	–	–	300	Red	B11CH	3	–	–	U310-1 Y34PR3	3	71H	3	3/0-263[†]	2	3	–
313	775/24	–	–	400	Blue	B11CH	2	–	–	Y320-1 Y34PRU3	3	76	2	4/0-313[†]	2	3	–
373	925/24	–	–	500	Brown	B10CHI B10CH	4	–	–	U340-1 Y34PR3	–	87H	3	4/0-373[†]	2	3	2[†††]
444	1100/24	–	–	600	Green	B36CH	6	–	–	C360 Y46PR4	2	94H	3	262-444	–	3 VC7F[†] only	2[†††]
535	1325/24	–	–	750	Black	B39CH[†]	2	–	–	C390 Y46PR4	2	106H	3	373-535	–	4 VC7F[†] only	2
646	1600/24	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
777	1925/24	–	–	1,000	–	–	2	–	–	C440 Y46PR4	2	125H	4	535-777	–	–	2
1 111	2750/24	–	–	1,500	–	–	2	–	–	C460 Y46PR4		–	–	–	–	–	–

** Adjustable indent tool. No insert dies required.
[1] HCT7508-12, HCT1239, HCT7508H only.
[3] Y39 only.
[4] Y48B only.
[†] Users of VC6 and VC7 tools must strip off an extra 1⅝ in. of insulation from end of cable to permit removal of tool over conductor sizes 250 kcmil and larger on Cu connectors.
[††] Also use VC8 tool with aluminum nibs.
[†††] VC8 tool crimps 500 kcmil only.

Installing dies

Tool and die index for copper compression connectors, one and two hole lugs, splices — Types ATL and ASP

			Blackburn tools						Burndy tools				ABB tools						Anderson tools		
Stranded Al wire size (AWG or kcmil)	Stranded Cu wire size (AWG or kcmil)	Die colour code	Mech. OD58	Crimps per end	Mech. HM-250 Tool	Crimps per end	Hyd. JB12B	Crimps per end	Mech. MY29-3	Crimps per end	Hyd. Y35, Y39	Crimps per end	Mech. TBM5S	Crimps per end	Mech. TBM8S	Crimps per end	Hyd. TBM15	Crimps per end	Stranded Al or Cu wire range	Crimps per end VC6[†], VC6F[†]	Crimps per end VC8C
#8	#6	Blue	1/4	2	**	1	B73CH	–	**	1	U8CABT	1	13454	2	13461	2	24	2	–	–	–
#6	#4	Grey	5/16	2	**	1	B74CH	–	**	1	U6CABT	2	13454	2	13461	2	29	2	–	–	–
#4	#1	Green	P	3	**	2	B05CH	–	**	2	U4CABT	2	13454	2	13462	2	37	2	–	–	–
#3	1/0	Pink	1/2	4	**	2	B06CHI	2	**	2	U2CABT	2	13455	3	13462	3	42H	3	6-2	2	–
#2	–	Gold	1/2-1	3	**	2	B06CHI	2	**	2	U1CABT	2	13455	3	13464	3	45	2	4-1	2	–
#1	–	Tan	9/16	4	**	2	B08CH	2	**	2	U25ART	2	13457	3	13464	3	50	2	6-1/0	2	–
1/0	–	Olive	5/8-1	4	**	2	B09CH	2	**	2	U26ART	2	13457	3	13464	3	54H	3	4-2/0	2	–
2/0	–	Ruby	688	5	**	2	B26CH	2	**	2	U27ART	2	13457	3	13464	3	60	2	4-3/0	2	–
3/0	–	White	781	5	**	2	B10CHI	2	**	2	U28ART	2	13457	3	13465	4	66	3	2-4/0	2	–
4/0	300	Red	781	5	**	–	B11CH	3	**	2	U29ART	2	13473	4	13466	5	71H	4	1/0-250[†]	2	–
250	350	Blue	840	–		–	B11CH	3	**	2	U30ART	2	–	–	–	–	76	2	1/0-300[†]	–	–
300	400	Brown	–	–	–	–	B12CHI	4	–	–	U31ART	2	–	–	13468	7	87H	4	2/0-350[†]	2	–
350	500	Green	–	–	–	–	B36CH	6	–	–	U32ART	4	–	–	–	–	94	2	3/0-400[†]	2	–
400	600	Pink	–	–	–	–	B76CH	4	–	–	U34ART	4	–	–	–	–	99H	4	4/0-500[†]	2	–
500	700	Black	–	–	–	–	B39CH	2	–	–	U36ART	4	–	–	–	–	106	2	350-600 Al 350-600 Cu	3[††]	–
600	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
750	–	–	–	–	–	–	6024AH1	1	U39RT22	4	U39ART-23	–	–	–	–	–	125H	5 600 Cu	500-750 Al	2[†††]	–
1,000	–	–	–	–	–	–	6030AH1	2	P44ART2	3	–	–	–	–	–	–	150H	5	750-1,000 Al	–	2[†††]

** Adjustable indent tool. No insert dies required.
[1] HCT7508-12, HCT1239, HCT7508H only.
[2] Y46 only.
[3] Y39 only.
[†] Users of VC6 and VC7 tools must strip off an extra 1⅝ in. of insulation from end of cable to permit removal of tool over conductor sizes 250 kcmil and larger on ASP connectors.
[††] VC6FT tool only.
[†††] With Al nibs for VC8C.

Installing dies

Gauging information for standard hex dies

Die code	TBM6H	Blackburn and ABB 12, 14- and 15-ton tools colour coded dies	21940 dies	Hex gauging
Red	6 ton 21	B71CH	–	0.191–0.207
Blue	6 ton 24	B73CH	–	0.222–0.234
27	–	–	11330	0.262–0.294
Grey	6 ton 29	B74CH	11404	0.262–0.294
32	–	–	11332	0.329-0.335
Brown	6 ton 33	B75CH	11402	0.326–0.337
35	–	–	*11403	0.353–0.359
Green	6 ton 37	B05CH	11333	0.369–0.383
40	–	–	*11404	0.397–0.403
42	–	15505F	11334	0.409–0.423
Pink	6 ton 42	B06CHI	–	0.409–0.423
Black	6 ton 45	B08CH	11405	0.445–0.459
Orange	6 ton 50	B09CH	11406	0.494–0.506
Olive	–	B09CH	11407	0.535–0.553
Purple	6 ton 54	B09CH	–	0.535–0.553
57	–	–		0.585–0.591
58	–	–	11338	0.585–0.591
60	6 ton 60	–	11408	0.613–0.631
Yellow	6 ton 62	B06CH	11340	0.657–0.675
White	6 ton 66	B10CHI	11409	0.657–0.675
66H	–	–	–	0.707–0.725
Red	–	B11CH	11363	0.707–0.725
Red	6 ton 71	B11CH	–	0.751–0769
Blue	6 ton 76	B11CH	11410	0.751–0769
76H	–	–	–	0.751–0769
78	–	–	11306	0.790–0.802
80	6 ton 80	–	11411 15517	0.790–0.802
83	–	–	*11370	0.825–0.831

* Obsolete, consult your Regional Sales Office for availability.
Gauges may be ordered from ABBB Tool Service.

Die code	TBM6H	Blackburn and ABB 14- and 15-ton tool dies	21940 dies	Hex gauging
87	–	–	11423	0.861–0.879
Brown	6 ton 87	B12CH	–	0.861–0.879
94	–	–	11364	0.935–0.953
94H	–	–	–	0.935–0.953
96	–	–	11304	0.959–0.977
96H	–	–	–	0.959–0.977
99	–	–	11424	0.979–0.997
99H	–	–	–	0.979–0.997
100	–	–	11365	1.005–1.011
106A	–	–	–	1.049–1.071
Black	–	B39CH	–	1.049–1.071
107	–	–	11425	1.064–1.076
107H	–	–	–	1.064–1.076
112	–	–	11426	1.118–1.131
112H	–	–	–	1.118–1.131
115	–	–	11308	1.141–0.163
115H	–	–	–	1.141–0.163
125	–	–	11416	1.239–1.261
125H	–	–	–	1.239–1.261
126	–	–	11443	1.247–1.253
130	–	–	11417	1.299–1.305
138	–	–	11366	1.377–1.383
140	–	–	11418	1.369–1.391
140H	–	–	–	1.369–1.391
150	–	–	11419	1.459–1.481
150H	–	–	–	1.459–1.481
160	–	–	11442	1.609–1.615
161	–	–	11420	1.609–1.615
168	–	–	11447	1.684–1.690
175	–	–	11421	1.752–1.744
204	–	–	11448	2.037–2.043
212	–	–	11449	2.120–2.126
214	–	–	11337	2.140–2.146

* Obsolete, consult your Regional Sales Office for availability.

Diagrams

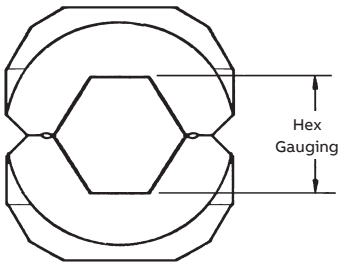


Fig. 2

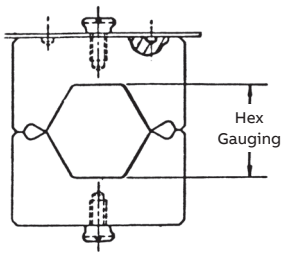
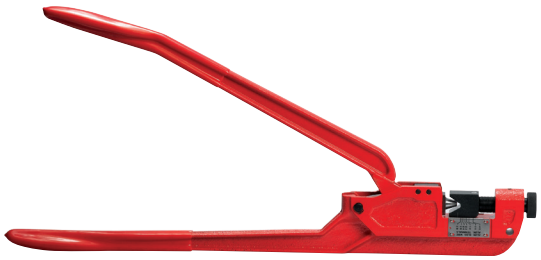


Fig. 1

Manual compression tools and cutters



HM 250 mechanical single-indent dieless crimper

- Manually operated single-indent compression tool
- For copper wire #8 AWG to 250 kcmil
- For aluminum wire #8 to 4/0 AWG

Cat no.	Description	Pkg. qty.
HM-250 TOOL	Mechanical single-indent dieless crimper	1

Utility cable slicers

- For use on copper and aluminum cable only
- Not to be used on steel or ACSR cable

Cat no.	Description	Maximum conductor size (kcmil)	Max. OD inc. insulation (in.)	Overall length (in.)	Pkg. qty.
UT 4 C	Cable slicer – small	600 Al – 350 Cu	1 5/16	21	1
UT 6 C	Cable slicer – large	1,000 Al – 500 Cu	2	31½	1
UT 4 B*	Blade assembly for UT 4 C	–	–	–	1
UT 6 B*	Blade assembly for UT 6 C	–	–	–	1

* UT 4 B and UT 6 B available from Tool Service centers.

Cutting dies and other tools

BY55

40CS

Cable slicing die sets

- Cut copper and aluminum insulated cable sizes from #8 AWG through 500 kcmil
- Produce clean, squared-end cut which eliminates extra trimming of conductor strands

Cat no.	Maximum cable size (AWG or kcmil)	Tools	Pkg. qty.
BY55	2/0	TBM6H, TBM6PCR-LI	1
40CS	4/0	TBM14M, 13100A and TBM14CR-LI	1
156CS	500	TBM15I and TBM15CR-LI	1

21649 cable bender

Cat no.	Description	Pkg. qty.
21649	Bender for cable up to 750 kcmil	1

CTR-1 C-tap removal tool

Cat no.	Description	Pkg. qty.
CTR-1	C-tap removal tool	1

Type WW wire bristle brush

- Removes oxides from conductor surfaces
- Easy-grip handle with guard to prevent rubber-glove puncture
- Replaceable long-life brushes can be rotated
- Handle and guard coated with durable, non-conductive plastic for safety

Cat no.	Description	Pkg. qty.
WWB1	Complete brush with handle	1
WRB1	Brush replacement	1

Allen wrench

The compact, dependable tool for turning a screw.

- Enables you to keep a steady grip while turning
- Matches the most popular screw sizes
- Available for 5/16 in. and 3/8 in. hex screws
- PVC-dipped handle

Cat no.	For hex screw size (in.)
WA 516	5/16
WA 38	3/8

Replacement batteries

Battery replacement for BPLT series tools
Series BPLT tool use Makita brand batteries, catalogue no. 1422. Not sold through ABB.

Li battery
- Standard battery platforms across all new Li-ion tools
- Provides more crimps per charge than standard Ni-MH batteries
- Lithium ion

Cat no.	Dimensions (L x W x H)	Weight (lb)	Capacity	Output	Pkg. qty.
144-BAT-LI	4.2 in. x 3.3 in. x 2.6 in.	1.2	3.0 Ah	14.4 V DC	1

Adapter for Li battery
Converts older TBM series battery tools with poke-in style battery to the new Li-ion battery platform, allowing for higher productivity as batteries are interchangeable across the Li-ion tools.

Cat no.	Dimensions (L x H)	Weight (lb)	Capacity	Output	Pkg. qty.
144-ADP-LI	6.05 in. x 12.87 in.	0.4	3.0 Ah	14.4 V DC	1

Li battery charger
Charger works across the standard battery platform for all new Li-ion tools.

Cat no.	Dimensions (L x W x H)	Weight (lb)	Capacity	Output	Pkg. qty.
144-CHR-LI	9 in. x 5.7 in. x 3.2 in.	3.5	100–240 V AC 50/60 Hz	10.8–14.4 V DC 7A 28.8 V DC 3A	1

Hydraulic PowerTap™ system

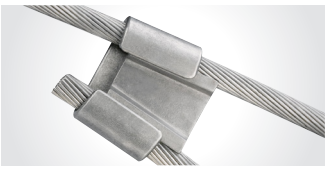
—
01 Place cables into connector.
—
02 Place tool head assembly on connector and tighten.
—
03 Attach power unit to tool head assembly using the unique quick-connect coupler.
—
04 Activate power unit.
—
05 Release power unit trigger. Remove the entire tool assembly from the connection.
—
06 The tool head can now be disassembled by pressing the lever on the quick-connect coupling — ready for the next install or for transport.

Blackburn® battery-powered wedge connector tool

Eliminates the hassles of powder actuation.

- Power unit and tool head feature a unique quick-connect coupler that engages easily and stays locked until the release lever is depressed
  - Quick-connect coupler enables easy assembly of cable and connector without power unit being engaged
  - Once the assembly has been made, power unit can be engaged, using quick-connect coupler to complete final wedge insertion
  - Integrated positive-stop valve precisely matches output pressure of tool to the wedge tap connector being installed
  - Audible bypass alerts you when optimum pressure is achieved
- Tool operates without cartridges
  - Lower installed cost
  - No powder fouling — minimizes cleaning and maintenance
  - Elimination of powder actuation improves safety
- Ergonomic pistol-grip handle ensures user comfort
- Rugged, weather-resistant housing is built to last in outdoor conditions

Installation sequence for the Blackburn® hydraulic PowerTap™ system



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01

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02

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04

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05

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06

Cat no.	Power unit	Small tool head	Large tool head	Coupling assembly	2 batteries	Battery charger	Connector removal clips	Carrying case
Blackburn battery-powered wedge connector tool								
HPT-TOOL	X	X	X	X	X	X	X	X
HPT-TOOL-S	X	X	–	X	X	X	X	X
HPT-TOOL-L	X	–	X	X	X	X	X	X
HPT-TOOL-PU	X	–	–	X	X	X	–	X

Assorted die kits

—
01 Side A
—
02 Side B

—
01

—
02

EZ-CK SS DIEKIT — Die sets kit
All the ABB dies you need to crimp the complete ABB EZGround® connector offering, presented in a two-sided metal carrying case. The reverse side of this kit allows you to keep all your colour-coded Color-Keyed crimping dies in one convenient location. A cable vs die reference chart inside each cover lets you sort and organize all your Color-Keyed compression connector dies for either copper or aluminum conductors. Additional compartments for cutting dies and adaptors round off this great package.

Cat no.	Die cat. no.	Qty.	Die colour	Copper (AWG or kcmil)	Aluminum (AWG or kcmil)
Die sets kit					
EZ-CK SS DIEKIT	15528SS	–	Brown	2	–
	15513SS	–	Green	1	4 AWG
	15508SS	–	Pink	1/0	2 AWG
	15526SS	–	Black	2/0	1 (Gold)
	15530SS	–	Orange	3/0	1/0 (Tan)
	15511SS	–	Purple	4/0	2/0 (Olive)
	15510SS	–	Yellow	250	–
	15534SS	–	White	300	4/0
	15514SS	–	Red	350	250
	15506SS	–	Brown	500	350
	15515SS	–	Black	750	650
	15G121R	–	–	–	–
	15G86R	–	–	–	–
	15501A	–	–	–	–
	15G126R	–	–	–	–
	CTB8	–	–	–	–
	COLCHA2-E	–	–	–	–
	GRNDIESEL-E	–	–	–	–

Assorted die kits

OD-TOOL-KIT

This kit is offered in a metal carrying case with heavy-duty handle and sturdy closures. The best way to carry the connectors and tools you need for commercial and residential hook-ups.

Cat no.	Kit includes	Qty.
OD-TOOL-KIT	Metallic carrying case	1
	ODB1 – Blackburn® Compression Tool	1
	WR159 – Compression connectors	18
	WR189 – Compression connectors	12
	WR289 – Compression connectors	5
	WR379 – Compression connectors	5
	WR419 – Compression connectors	5
	C5C – Insulating covers	30
	C7C – Insulating covers	15

ODB compression tool with straight wooden handles and ODH1 insulated heat cover (installed on ODB1) can be ordered separately.

TBM45SKIT-N

TBM45SKIT-N includes the following:

Cat no.	Qty.	Cat. no.	Cable size (AWG)	Items	Weight/lb each
TBM45SKIT-N	25	54130	#8	One-hole lugs	20
	25	54105	#6	One-hole lugs	20
	25	54106	#4	One-hole lugs	20
	25	54107	#2-#3	One-hole lugs	20
	25	54108	#1	One-hole lugs	20
	25	54143-TB	#2	2-way connectors	20
	25	54136	#6	2-way connectors	20
	25	54804	#8	2-way connectors	20
	25	54805	#6	2-way connectors	20
	25	54806	#4	2-way connectors	20
	25	54807	#2-#3	2-way connectors	20
	25	54808	#1	2-way connectors	20
	1	TBM45S Tool	–	–	20

Assorted die kits

Cat no.	Description
PWK1	Empty case – includes Color-Keyed wall chart; make up your own selection of Color-Keyed lugs, splices, taps or motor disconnects
PWK4	Metal cabinet that holds four of the PWK1 shells slide out for easy removal of PWK1
MDPWK12	Selection of size 1 and 2 male motor disconnects plus insulators; to connect 60 single line to single line load motor leads, #12 AWG through #2 AWG; tools not included
MDPWK23	Selection of size 2 and 3 male motor disconnects plus insulators; to connect 54 single line to single line load motor leads, #12 AWG through 4/0 AWG; tools not included
MDKITL	Includes tool

Carrying cases

Case contents MDPWK12				
1 PWK1	10 MD1210F-1	6 MD8M-2	6 MD8F-2	30 BOOT-1
10 MD1210M-1	10 MD8F-1	6 MD6M-2	6 MD6F-2	6 MD1210M-2
10 MD8M-1	10 MD6F-1	6 MD4M-2	6 MD4F-2	6 MD1210F-2
10 MD6M-1	30 MDBOOT-2	6 MD2M-2	6 MD2F-2	–
Case contents MDPWK23				
1 PWK1	6 MD1210F-2	3 MD2M-3	3 MD2F-3	6 MD1M-2
6 MD1210M-2	6 MD8F-2	3 MD1M-3	3 MD1F-3	36 MDBOOT-2
6 MD8M-1	6 MD6F-2	3 MD10M-3	3 MD10F-3	18 MDBOOT-3
6 MD6M-1	6 MD4F-2	3 MD20M-3	3 MD20F-3	–
6 MD4M-1	6 MD2F-2	3 MD30M-3	3 MD30F-3	–
6 MD2M-1	6 MD1F-2	3 MD40M-3	3 MD40F-3	–
Case contents MDKITL				
1 PWK1	1 TBM45S	24 MDBOOT-2	3 M2D2M-2	6 MD8M-1
3 M2D4M-2	3 M2D6M-2	3 M2D8M-2	12 M2DBOOT-2	6 MD8F-1
12 MDBOOT-1	12 MD2F-2	12 MD4F-2	12 MD6F-2	6 MD8M-2
12 M2D8M-2	6 MD2M-2	6 MD4M-2	6 MD6M-2	6 MD6M-2
6 MD6F-1	–	–	–	–

Tool cross reference

	Blackburn®/ABB		Burndy			
Die designation	**Mechanical OD58 series and TBM6H hydraulic head (except as noted)**	**Hydraulic JB12B, TBM14M, 13100A, TBM15I**	**Mechanical**	**Hydraulic**	**Alcoa/other**	**EEI**
5/8	BY31 13474/13477* (Orange/Tan nest)	B58CS	W-BG	U-BG	G TU Peach	–
840	BY37 13474/13477* (Red/Blue nest)	B49EA 15512	W-K840	U-K840 U-249	TX	–
O	OJB 13470*	HO 15501-A	W-O	U-O	B11AH	–
D	DBL 13471*	HD 15502	–	U-D	BD	–
N	–	HN 15612**	–	U-N	BN	–
R	–	15620**		U-R	–	–
B T BKT	BY45 BY49	HBKT	W-KB W-BG	–	–	–
K	BY47	HBKT	W-KK	–	–	–
C	BY33	HBKC	W-C	U-C	–	–
KC	–	B39EA	W-247	U-247 U-167	–	–
J 5/16	BY19 BY51	B73AH	W161 W-242	U-161 U-242	TP	–
P, 3/8	BY21 BY53	B71AH 15513SS	W-162	U-162	TK TL TN TB	–
1/2 510 500	–	B17EA 15526SS B72AH	W-163	U-163	B06AH TQ TS	6A
5/8-1 620	BY3	B24EA	W-BG W-165 W-243	U-BG U-165 U-243	B08AH TU	8A
635	BY41	B30EA	W-245 W-687	U-245	TWTY B09AH	9A
737, 747	BY33	B39EA 15534SS	W-C W-247 W-167 W-694 W-702	U-247 U-167 U-694	B10AH TV	10A
781	BY35	B74AH	W-247	U-247 U-659	–	–
840 845	BY37	B49EA 15514SS 15512SS	W-249	U-249 U-658 U-168	TX B11AH	11A
1	–	B75AH 15506SS B61EA	W-249	U-251 U654	TH B12AH	12A
1 1-1/8-1	–	B80EA B20AH 15536SS 15505SS	W-249	U-321 U-490 U-317 U468 U426 U547 U-655	B13AH	13A 14A
1-5/16	–	B76AH B78AH B20AH 15515SS	W-249	U-318 U-327 U-261 U-788	B14AH	14A

All Blackburn® and Alcoa "B" series dies and Burndy "U" dies fit the ABB/Blackburn® hydraulic tools listed.
Adapter 15500TB required with TBM15.
* Fit TBM6, 6S, and TBM60RS (same as Homac UT5 and "H" dies series).
** Fit TBM15 only.
For reference only. Connectors may require a specific die for proper application.

Tool cross reference (continued)

Tool type	Blackburn®/ABB	Burndy	Kearny	Anderson/Huskie	Homac®	Alcoa
Mechanical	OD58 OD581 ODF ODF1 ODF3 ODB ODB1 ODB3	MD5 series MD6 series MD7 series	OS49 series OS50 series 061 series 062 series 063 series O68 series	ND series	UT5	–
–	TBM-250 TOOL	MY28 series MY29 series	–	–	UT3	–
–	TBM5 5S 6 6S 8 8S TBM60RS (For colour code copper and aluminum series only except as noted on die chart)	MD5 series MD6 series MD7 series (only to 4/0)	–	–	UT5	–
Self-contained hydraulic	JB12B TBM14M	Y35 Y39 Y750	WH2 WH3	–	–	–
Remote hydraulic	13100A, TBM15, TBM6H	Y35BH Y39BH Y750BH Y45 Y46	PH13-10 PH14	EP series	–	12A 12AC
Battpac™ battery-powered compression and cutting	TBM6PCR-LI TBM14CR-LI TBM15CR-LI TBM58PCTS-LI TBM54CT-LI TBM40BSCT 13950PI	BAT500 BCT500 BAT35 BAT750 Y700DC-1B	–	EP series	UT15	12HA 12HAC

Tools may have limits on connector range capabilities. Consult your ABB regional sales office if necessary.
All hydraulic heads listed are for 10,000 psi systems only.
TBM8-750 and TBM8-750M-1 are dieless, indent-type crimp hydraulic tools equivalent to the Anderson Versa-Crimp tools and the Burndy Y644.
Consult your ABB regional sales office for application if necessary.

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