

CATALOG

Spec-Kon®

Wire termination products for OEM applications

Spec-Kon®



**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.**

Table of contents

004	Overview
005–026	Terminals
027–038	Disconnects
039–042	Splices, wire joints and quick splices
043–046	Installation tools
047–048	Application information
049–050	Index

Overview

Crimp terminals, disconnects and splices



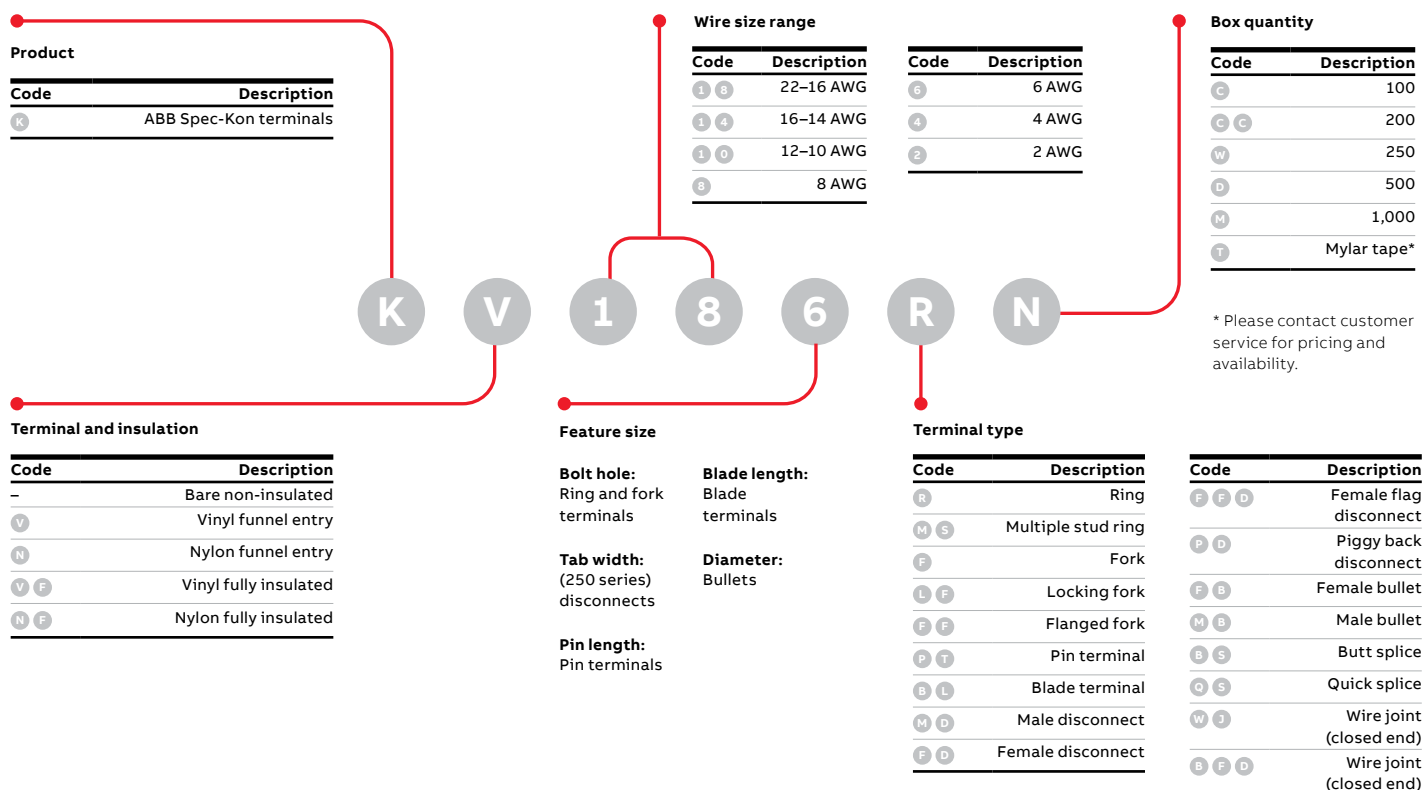
Ideal for OEM applications, ABB's Spec-Kon® crimp terminals, disconnects and splices can be used anywhere a high number of terminations are required every day, such as the wiring harness, panelboard, telecommunications and automotive industries.

The Spec-Kon terminal offering includes:

- A broad selection of bulk-packaged loose-piece terminals in non-insulated and insulated varieties, including male and female disconnects, rings, forks, pins, blades, butt splices, wire joints and bullet connectors.
- Terminals on mylar tape for automated applications, including the KT-2500 power tool for frequent, repeated crimps.
- The ERG-2500 ergonomic hand tool, which crimps all sizes of insulated barrel-style Spec-Kon wire termination products.

Catalog numbering system

Example: KV18-6R-M



Terminals

Features and benefits of Spec-Kon® terminals

- **Internal barrel serrations** — During crimping, the wire will cold flow into serrations, giving lower resistance connections and improving tensile strength.
- **Size marking** — Wire range is stamped on the tongue (metric and English) for easy access to the terminal size without drawings/ packaging.
- **Electro tin plating** — Provides excellent corrosion resistance, superior finish for better-looking installation.
- **Ergonomic hand tool** — Ergonomically designed ERG-2500 completes a UL listed crimp while requiring substantially lower handle forces.
- **One tool for all insulated products** — ABB offers a single tool that crimps the entire range of standard insulated terminals, disconnects and butt splices. Many competitors require 2 to 4 different tools to cover the same range.
- **Color coding** — Insulators are color coded for specific wire size (red = 22–16 AWG, blue = 16–14 AWG, yellow = 12–10 AWG, red = 8 AWG, blue = 6 AWG).

Nylon-insulated terminals

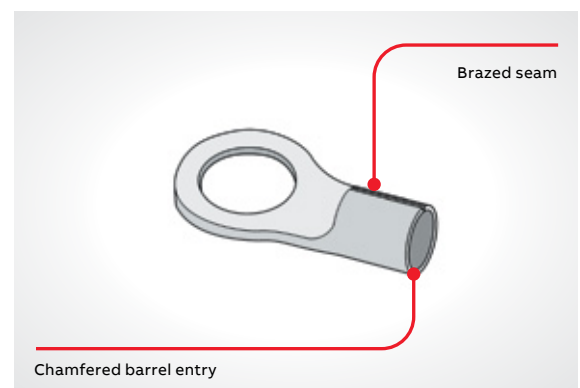
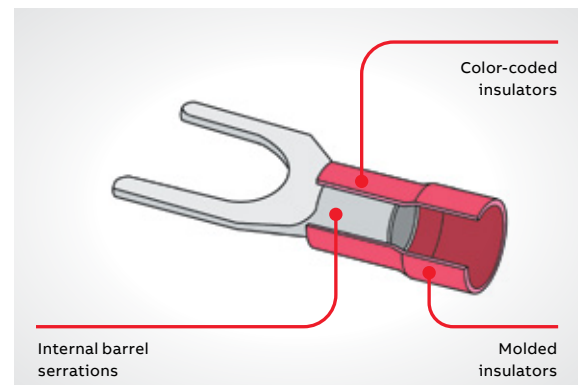
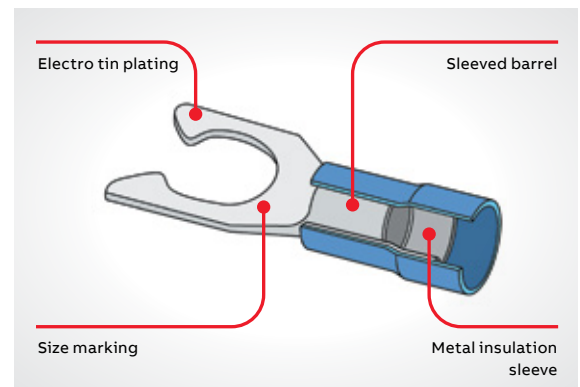
- **Sleeved barrel** — Ensures barrel does not separate during crimping.
- **Molded insulators** — Molded insulators ensure consistent shape and quality, shaped entry speeds installation and reduces wire hang up.
- **Metal insulation sleeve** — Sleeve crimps wire insulation, providing high-vibration resistance and conductor strain relief.
- **Nylon material** — Ideal for harsh environments. Provides excellent chemical, impact and abrasion resistance.
- **Ratings** — UL listed, cULus listed, CSA, 600 V at 105 °C.

Vinyl-insulated terminals

- **Brazed seam** — Ensures barrel does not separate during crimping.
- **Molded funnel entry insulators** — Funnel entry speeds installation and reduces wire hang up. Molded insulators ensure consistent shape and quality every time.
- **Insulation crimp** — The insulator mouth is flared to speed installation and accommodate thicker insulated wires. Also, provides insulation support strain relief in high-vibration applications.
- **Vinyl material** — Economical, moisture resistant and flame retardant (UL94V-0).
- **Ratings** — UL listed, cULus listed, CSA, 600 V at 105 °C.

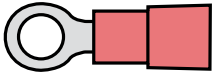
Non-insulated terminals

- **Brazed seam** — Ensures barrel does not separate during crimping.
- **Chamfered barrel entry** — Smoothing the barrel entry edge facilitates wire insertion.
- **Ratings** — UL listed, cULus listed, CSA, 2000 V.

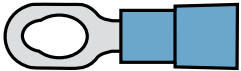


Terminals

Design features of Spec-Kon® terminals



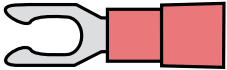
Rings
Provides the most secure and reliable connection available



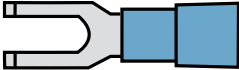
Multiple-stud rings
Special tongue style that accommodates 3 stud sizes with one terminal



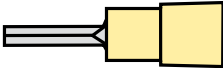
Forks
Fast and easy to install without removing the terminal block screw



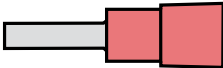
Locking forks
Offers the secure connection of a ring terminal with the fast and easy installation of a fork terminal



Flanged forks
Turned-up toes provide secure connections in high-vibration applications



Pins
Standard insulation-style terminals for use on DIN-style/metric terminal blocks



Blades
Standard insulation-style terminals for use on DIN-style/metric terminal blocks

Performance requirements

Description											Wire size (AWG)
UL 486A (terminals)	#22	#20	#18	#16	#14	#12	#10	#8	#6	#4	#2
Test current for max. 50 °C rise (Amps)	9	12	17	18	30	35	50	70	95	125	70
Min. tensile strength* (lbs.)	8	13	20	30	50	70	80	90	100	140	180

* Pull-out force of the crimped terminal.

Applicable Spec-Kon products meet or exceed the following test specifications:

- UL 486A (terminals)
- CSA
- UL 486C (splices)

UL listed products are shown with the applicable logos in the product section.

UL file #E9809 (terminals).

CSA file #LR4503

Terminals

Nylon-insulated ring terminals



- Metal insulation sleeve
- Molded insulator
- Internal barrel serrations
- Funnel entry



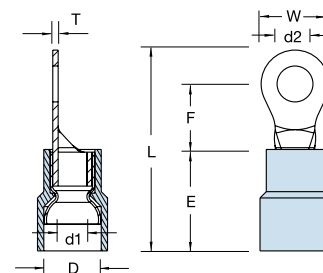
Nylon-insulated ring terminals

Catalog							Dimension inch mm			
number	Wire range	Bolt size (d2)	W	F	L	E	D	d1	T	
KN18-6R-M	22-16 AWG	#6	0.146	0.260	0.248	0.803	0.433	0.177	0.067	0.030
	0.5-1.5 mm²		3.7	6.6	6.3	20.4	11.0	4.5	1.7	0.75
KN18-8R-M		#8	0.169	0.260	0.248	0.803				
			4.3	6.6	6.3	20.4				
KN18-10R-M		#10	0.209	0.315	0.276	0.858				
			5.3	8.0	7.0	21.8				
KN18-14R-M		¾	0.252	0.457	0.433	1.094				
			6.4	11.6	11.0	27.8				
KN18-516R-M		⅝	0.331	0.457	0.433	1.094				
			8.4	11.6	11.0	27.8				
KN14-6R-M	16-14 AWG	#6	0.146	0.260	0.248	0.8.3	0.433	0.205	0.091	0.031
	1.5-2.5 mm²		3.7	6.6	6.3	20.4	11.0	5.2	2.3	0.8
KN14-8R-M		#8	0.169	0.260	0.248	0.803				
			4.3	6.6	6.3	20.4				
KN14-10R-M		#10	0.209	0.335	0.307	0.898				
			5.3	8.5	7.8	22.8				
KN14-14R-M		¾	0.252	0.472	0.433	1.094				
			6.4	12.0	11.0	27.8				
KN14-516R-M		⅝	0.331	0.472	0.433	1.094				
			8.4	12.0	11.0	27.8				
KN14-38R-M		¾	0.413	0.535	0.547	1.240				
			10.5	13.6	13.9	31.5				
KN10-6R-D	12-10 AWG	#6	0.146	0.283	0.240	0.894	0.512	0.276	0.134	0.039
	4-6 mm²		3.7	7.2	6.1	22.7	13.0	7.0	3.4	1.0
KN10-8R-D		#8	0.169	0.283	0.240	0.894				
			4.3	7.2	6.1	22.7				
KN10-10R-D		#10	0.209	0.374	0.358	1.047				
			5.3	9.5	9.1	26.6				
KN10-14R-D		¾	0.252	0.472	0.413	1.164				
			6.4	12.0	10.5	29.5				
KN10-516R-D		⅝	0.331	0.591	0.531	1.339				
			8.4	15.0	13.5	34.0				
KN10-38R-D		¾	0.413	0.591	0.531	1.339				
			10.5	15.0	13.5	34.0				
KN10-12R-D		½	0.512	0.756	0.630	1.520				
			13.0	19.2	16.0	38.6				

Box quantity: (D) = 500; (M) = 1000
For mylar tape, replace box quantity with (T). Example: KN18-6R-T
UL File #E9809
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
600 volts max.
Terminal material: Copper



Tools used with nylon-insulated ring terminals

For complete information regarding tools, see pages 43-46.



ERG4500



KT-2500

Terminals

Vinyl-insulated ring terminals



- Molded funnel entry insulator
- Brazed seam
- Internal barrel serrations



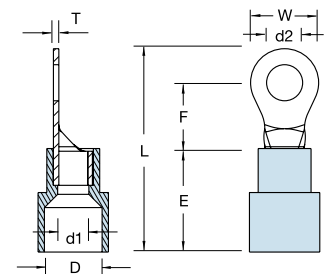
Vinyl-insulated ring terminals

Catalog number	Wire range	Bolt size (d2)		Dimension inch mm						
				W	F	L	E	D	d1	T
KV18-6R-M	22-16 AWG 0.5-1.5 mm ²	#6	0.146	0.260	0.248	0.803	0.433	0.157	0.067	0.030
			3.7	6.6	6.3	20.4	11.0	4.0	1.7	0.75
KV18-8R-M		#8	0.169	0.260	0.248	0.803				
			4.3	6.6	6.3	20.4				
KV18-10R-M		#10	0.209	0.315	0.276	0.858				
			5.3	8.0	7.0	21.8				
KV18-14R-M		¼	0.252	0.457	0.433	1.094				
			6.4	11.6	11.0	27.8				
KV18-516R-M		⅝	0.331	0.457	0.433	1.094				
			8.4	11.6	11.0	27.8				
KV18-38R-M		¾	0.413	0.835	0.547	1.240				
			10.5	13.6	13.9	31.5				
KV14-6R-M	16-14 AWG 1.5-2.5 mm ²	#6	0.146	0.260	0.248	0.803	0.433	0.177	0.091	0.031
			3.7	6.6	6.3	20.4	11.0	4.5	2.3	0.8
KV14-8R-M		#8	0.169	0.260	0.248	0.803				
			4.3	6.6	6.3	20.4				
KV14-10R-M		#10	0.209	0.335	0.307	0.898				
			5.3	8.5	7.8	22.8				
KV14-14R-M		¼	0.252	0.472	0.433	1.094				
			6.4	12.0	11.0	27.8				
KV14-516R-M		⅝	0.331	0.472	0.433	1.094				
			8.4	12.0	11.0	27.8				
KV14-38R-M		¾	0.413	0.535	0.547	1.240				
			10.5	13.6	13.9	31.5				
KV10-6R-D	12-10 AWG 4-6 mm ²	#6	0.146	0.283	0.240	0.894	0.512	0.252	0.134	0.039
			3.7	7.2	6.1	22.7	13.0	6.4	3.4	1.0
KV10-8R-D		#8	0.169	0.283	0.240	0.894				
			4.3	7.2	6.1	22.7				
KV10-10R-D		#10	0.209	0.374	0.358	1.047				
			5.3	9.5	9.1	26.6				
KV10-14R-D		¼	0.252	0.472	0.413	1.161				
			6.4	12.0	10.5	29.5				
KV10-516R-D		⅝	0.331	0.591	0.531	1.339				
			8.4	15.0	13.5	34.0				
KV10-38R-D		¾	0.413	0.591	0.531	1.339				
			10.5	15.0	13.5	34.0				
KV10-12R-D		½	0.512	0.756	0.630	1.520				
			13.0	19.2	16.0	38.6				

Box quantity: (D) = 500; (M) = 1000
For mylar tape, replace box quantity with (T). Example: KV18-6R-T
UL File #E9809
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
600 volts max.
Terminal material: Copper



Tools used with vinyl-insulated ring terminals



ERG4500



KT-2500

Terminals

Non-insulated ring terminals



- Chamfered barrel
- Brazed seam
- Internal barrel serrations



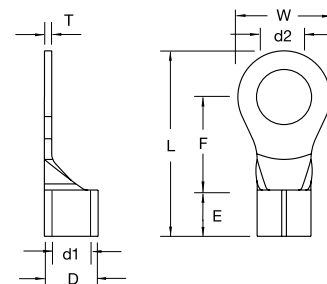
Non-insulated ring terminals

Catalog number	Wire range	Bolt size (d2)	Dimension inch mm							
			W	F	L	E	D	d1	T	
K18-6R-M	22–16 AWG 0.5–1.5 mm ²	#6	0.146	0.260	0.248	0.567	0.189 4.8	0.134 3.4	0.067 1.7	0.030 0.75
K18-8R-M				3.7	6.6	6.3				
		#8	0.169	0.260	0.248	0.567				
			4.3	6.6	6.3	14.4				
K18-10R-M		#10	0.209	0.315	0.276	0.622				
			5.3	8.0	7.0	15.8				
K18-14R-M		¼	0.252	0.457	0.433	0.858				
			6.4	11.6	11.0	21.8				
K14-6R-M	16–14 AWG 1.5–2.5 mm ²	#6	0.146	0.260	0.248	0.567	0.189 4.8	0.161 4.1	0.091 2.3	0.031 0.8
K14-8R-M				3.7	6.6	6.3				
		#8	0.169	0.260	0.248	0.567				
			4.3	6.6	6.3	14.4				
K14-10R-M		#10	0.209	0.335	0.307	0.661				
			5.3	8.5	7.8	16.8				
K14-14R-M		¼	0.252	0.472	0.433	0.858				
			6.4	12.0	11.0	21.8				
K14-516R-M		⅝	0.331	0.472	0.433	0.858				
			8.4	12.0	11.0	21.8				
K14-38R-M		¾	0.413	0.535	0.547	1.004				
			10.5	13.6	13.9	25.5				
K10-6R-M	12–10 AWG 4–6 mm ²	#6	0.146	0.283	0.240	0.618	0.236 6.0	0.220 5.6	0.134 3.4	0.039 1.0
				3.7	7.2	6.1				
K10-8R-M		#8	0.169	0.283	0.240	0.618				
			4.3	7.2	6.1	15.7				
K10-10R-M		#10	0.209	0.374	0.358	0.772				
			5.3	9.5	9.1	19.6				
K10-14R-M		¼	0.252	0.472	0.413	0.886				
			6.4	12.0	10.5	22.5				
K10-516R-M		⅝	0.331	0.591	0.531	1.063				
			8.4	15.0	13.5	27.0				
K10-38R-M		¾	0.413	0.591	0.531	1.063				
			10.5	15.0	13.5	27.0				
K10-12R-D		½	0.512	0.756	0.630	1.244				
			13.0	19.2	16.0	31.6				

Box quantity: (D) = 500; (M) = 1000
For mylar tape, replace box quantity with (T). Example: K18-6R-T
UL File #E9809
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Terminal material: Copper



Tools used with non-insulated ring terminals



ERG4002 and WT111M



KT-2500

Terminals

Nylon-insulated multiple stud ring terminals



- Single terminal for 6, 8 and 10 stud sizes
- Molded insulator
- Metal insulation sleeve
- Funnel entry

Nylon-insulated multiple stud ring terminals

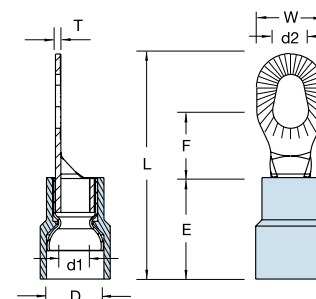


Catalog number	Wire range	Bolt size	Dimension inch mm						
			W	F	L	E	D	d1	T
KN18-610MS-M	22-16 AWG	#6-#10	0.339	0.311	0.996	0.433	0.177	0.067	0.030
	0.5-1.5 mm ²		8.6	7.9	25.3	11.0	4.5	1.7	0.75
KN14-610MS-M	16-14 AWG	#6-#10	0.339	0.311	0.996	0.433	0.205	0.091	0.031
	1.5-2.5 mm ²		8.6	7.9	25.3	11.0	5.2	2.3	0.8
KN10-610MS-D	12-10 AWG	#6-#10	0.390	0.350	1.154	0.512	0.276	0.134	0.039
	4-6 mm ²		9.9	8.9	29.3	13.0	7.0	3.4	1.0

Box quantity: (D) = 500; (M) = 1000
For mylar tape, replace box quantity with (T). Example: KN18-610MS-T
UL File #E9809
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
600 volts max.
Terminal material: Copper



Vinyl-insulated multiple stud ring terminals



- Single terminal for 6, 8 and 10 stud sizes
- Molded funnel entry insulator
- Brazed seam

Vinyl-insulated multiple stud ring terminals

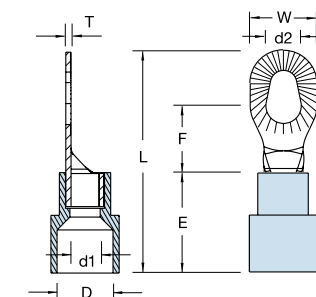


Catalog number	Wire range	Bolt size	Dimension inch mm						
			W	F	L	E	D	d1	T
KV18-610MS-M	22-16 AWG	#6-#10	0.339	0.311	0.996	0.433	0.157	0.067	0.030
	0.5-1.5 mm ²		8.6	7.9	25.3	11.0	4.0	1.7	0.75
KV14-610MS-M	16-14 AWG	#6-#10	0.339	0.311	0.996	0.433	0.177	0.091	0.031
	1.5-2.5 mm ²		8.6	7.9	25.3	11.0	4.5	2.3	0.8
KV10-610MS-D	12-10 AWG	#6-#10	0.390	0.350	1.154	0.512	0.252	0.134	0.039
	4-6 mm ²		9.9	8.9	29.3	13.0	6.4	3.4	1.0

Box quantity: (D) = 500; (M) = 1000
For mylar tape, replace box quantity with (T). Example: KV18-610MS-T
UL File #E9809
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
600 volts max.
Terminal material: Copper



Tools used with nylon- and vinyl-insulated multiple stud ring terminals



ERG4500



KT-2500

Terminals

Non-insulated multiple stud ring terminals



- Single terminal for 6, 8 and 10 stud sizes
- Brazed seam
- Chamfered barrel
- Internal barrel serrations

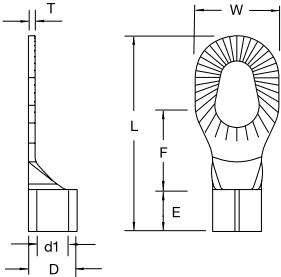


Non-insulated multiple stud ring terminals

Catalog number	Wire range	Bolt size	Dimension inch mm						
			W	F	L	E	D	d1	T
K10-610MS-M	12-10 AWG	#6-#10	0.390	0.350	0.886	0.236	0.220	0.134	0.039
	4-6 mm2		9.9	8.9	22.5	6.0	5.6	3.4	1.0

Box quantity: (M) = 1000
For mylar tape, replace box quantity with (T). Example: K18-610MS-T
UL File #E9809
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.
Terminal material: Copper



Tools used with non-insulated multiple stud ring terminals



ERG4002 or WT111M



KT-2500

Terminals

Nylon-insulated large ring terminals



- Brazed seam
- Molded funnel entry insulator
- Internal barrel serrations



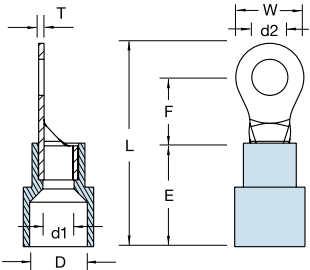
Nylon-insulated large ring terminals

Catalog number	Wire range	Bolt size (d2)	Dimension inch mm							
			W	F	L	E	D	d1	T	
KN8-8R-D	8 AWG 8 mm ²	#8	0.169	0.315	0.366	1.142	0.630	0.315	0.177	0.047
			4.3	8.0	9.3	29.0	16.0	8.0	4.5	1.2
KN8-10R-D		#10	0.209	0.364	0.429	1.232				
			5.3	8.8	10.9	31.3				
KN8-14R-D		¼	0.252	0.472	0.366	1.232				
			6.4	12.0	9.3	31.3				
KN8-516R-D		⅝	0.331	0.591	0.543	1.469				
			8.4	15.0	13.8	37.3				
KN8-38R-D		¾	0.413	0.591	0.543	1.469				
			10.5	15.0	13.8	37.3				
KN8-12R-W		½	0.512	0.787	0.591	1.614				
			13.0	20.0	15.0	41.0				
KN6-10R-W	6 AWG 14 mm ²	#10	0.209	0.472	0.524	1.606	0.846	0.433	0.228	0.059
			5.3	12.0	13.3	40.8	21.5	11.0	5.8	1.5
KN6-14R-W		¼	0.252							
			6.4							
KN6-516R-W		⅝	0.331	0.630	0.559	1.713				
			8.4	16.0	14.2	43.5				
KN6-38R-W		¾	0.413							
			10.5							

Box quantity: (W) = 250; (D) = 500
For mylar tape, replace box quantity with (T). Example: KN8-8R-T.
UL File #E9809
CSA File #LR4503

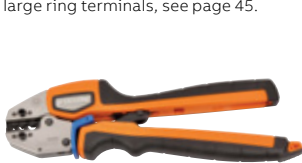
See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
600 volts max.
Terminal material: Copper
#8 AWG on mylar tape is UL listed.
#6 AWG on mylar tape is UL listed.



Tools used with nylon-insulated large ring terminals

For tooling information for nylon-insulated large ring terminals, see page 45.



ERG4500



KT-2500

Terminals

Non-insulated large ring terminals



- Brazed seam
- Chamfered barrel
- Internal barrel serrations

Non-insulated large ring terminals

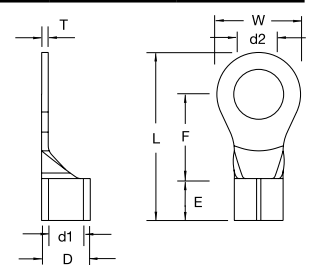


Catalog number	Wire range	Bolt size (d2)	Dimension inch mm							
			W	F	L	E	D	d1	T	
K8-8R-D	8 AWG 8 mm ²	#8	0.169	0.315	0.366	0.846	0.337	0.283	0.177	0.047
			4.3	8.0	9.3	21.5	8.5	7.2	4.5	1.2
K8-10R-D		#10	0.209	0.346	0.429	0.937				
			5.3	8.8	10.5	23.8				
K8-14R-D		¼	0.252	0.472	0.366	0.937				
			6.4	12.0	9.3	23.8				
K8-516R-D		⅝	0.331	0.591	0.543	1.161				
			8.4	15.0	13.8	29.8				
K8-38R-D		¾	0.413	0.591	0.543	1.161				
			10.5	15.0	13.8	29.8				
K8-12R-D		½	0.512	0.787	0.591	1.319				
			13.0	20.0	15.0	33.5				
K6-10R-D		#10	0.209	0.472	0.524	1.173	0.413	0.354	0.228	0.059
			5.3	12.0	13.3	29.8	10.5	9.0	5.85	1.5
K6-14R-D		¼	0.252	0.472	0.524	1.173				
			6.4	12.0	13.3	29.8				
K6-516R-D		⅝	0.331	0.630	0.559	1.280				
			8.4	16.0	14.2	32.5				
K6-38R-D		¾	0.413	0.630	0.559	1.280				
			10.5	16.0	14.2	32.5				
K6-12R-W		½	0.512	0.866	0.780	1.614				
			13.0	22.0	19.8	41.0				
K4-10R-W*		#10	0.209	0.481	0.594	0.1.307	0.413	0.354	0.228	0.059
			5.3	12.2	15.1	33.2	10.5	9.0	5.85	1.5
K4-14R-W*		¼	0.252	0.481	0.594	1.299				
			6.4	12.2	15.1	33.0				
K4-516R-W*		⅝	0.331	0.650	0.531	1.319				
			8.4	16.5	13.5	33.5				
K4-38R-W*		¾	0.413	0.650	0.531	1.319				
			10.5	16.5	13.5	33.5				
K4-12R-CC*		½	0.512	0.866	0.776	1.661				
			13.0	22.0	19.7	42.5				
K2-14R-CC*		¼	0.252	0.602	0.685	1.535	0.551	0.524	0.370	0.071
			6.4	15.3	17.4	39.0	14.0	13.3	9.4	1.8
K2-516R-CC*		⅝	0.331	0.602	0.685	1.535				
			8.4	15.3	17.4	39.0				
K2-38R-CC*		¾	0.413	0.602	0.685	1.535				
			10.5	15.3	17.4	39.0				

Box quantity: C=100; CC=200; (W)=250;
(D) = 500;
For mylar tape, replace box quantity
with (T). Example: K6-10R-T.

See pages in back of catalog for complete
tool information.
Tool and die selection chart on page 47.

Terminal material: Copper
UL File #E9809
*Pending UL listing



Tools used with non-insulated large ring terminals

For tooling information for non-insulated large
ring terminals, see page 45.



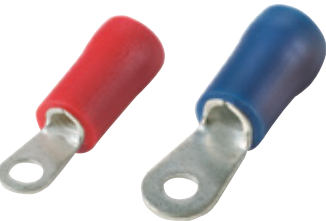
TBM65



KT-2500

Terminals

Vinyl-insulated large ring terminals



- Brazed seam
- Internal barrel serrations



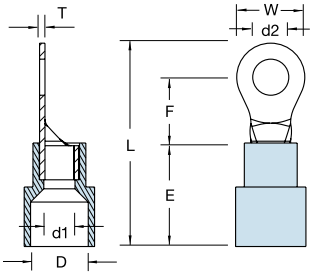
Vinyl-insulated large ring terminals

Catalog number	Wire range	Bolt size (d2)	Dimension inch mm							
			W	F	L	E	D	d1	T	
KV8-8R-D	8 AWG	#8	0.315	0.366	1.16	0.650	0.335	0.177	0.047	
	8 mm²		8.0	9.3	29.5	16.5	8.5	4.5	1.2	
KV8-14R-D		¼	0.252	0.366	1.25					
			6.4	9.3	31.8					
KV6-14R-W	6 AWG	¼	0.472	0.524	1.62	0.886	0.414	0.222	0.059	
	14 mm²		12.0	13.3	41.2	22.5	10.5	5.65	1.5	
KV6-12R-W		½	0.512	0.780	2.09					
			13.0	19.8	53					

Box quantity: (W)=250; (D) = 500
For mylar tape, replace box quantity with (T). Example: KN8-8R-T.
UL File #E9809
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.
Maximum electrical rating: 105 °C
600 volts max.

Terminal material: Copper
#8 AWG on mylar tape is UL listed.
#6 AWG on mylar tape is UL listed.



Tools used with vinyl-insulated large ring terminals

For tooling information for vinyl-insulated large ring terminals, see page 45.



TBM6S



KT-2500

Terminals

Nylon-insulated fork terminals



- Metal insulation sleeve
- Molded insulator
- Internal barrel serrations
- Funnel entry



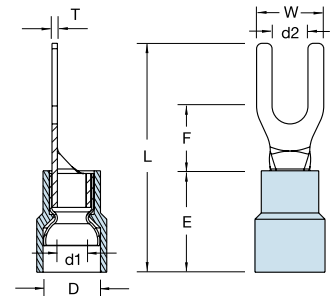
Nylon-insulated fork terminals

Catalog number	Wire range	Bolt size (d2)		Dimension inch mm						
				W	F	L	E	D	d1	T
KN18-6F-M	22-16 AWG 0.5-1.5 mm ²	#6	0.146	0.252	0.256	0.866	0.433	0.177	0.067	0.030
			3.7	6.4	6.5	22.0	11.0	4.5	1.7	0.75
KN18-8F-M		#8	0.169	0.252	0.256	0.866				
			4.3	6.4	6.5	22.0				
KN18-10F-M		#10	0.209	0.319	0.256	0.866				
			5.3	8.1	6.5	22.0				
KN14-6F-M	16-14 AWG 1.5-2.5 mm ²	#6	0.146	0.236	0.256	0.866	0.433	0.205	0.091	0.031
			3.7	6.0	6.5	22.0	11.0	5.2	2.3	0.8
KN14-8F-M		#8	0.169	0.252	0.256	0.866				
			4.3	6.4	6.5	22.0				
KN14-10F-M		#10	0.209	0.311	0.256	0.866				
			5.3	7.9	6.5	22.0				
KN14-14F-M		¼	0.252	0.366	0.256	0.866				
			6.4	9.3	6.5	22.0				
KN10-6F-D	12-10 AWG 4-6 mm ²	#6	0.146	0.283	0.295	0.961	0.512	0.276	0.134	0.039
			3.7	7.2	7.5	24.4	13.0	7.0	3.4	1.0
KN10-8F-D		#8	0.169	0.327	0.276	1.004				
			4.3	8.3	7.0	25.5				
KN10-10F-D		#10	0.209	0.354	0.276	1.004				
			5.3	9.0	7.0	25.5				
KN10-14F-D		¼	0.252	0.354	0.276	1.004				
			6.4	9.0	7.0	25.5				
KN10-516F-D		⅝	0.315	0.551	0.413	1.201				
			8.4	14.0	10.5	30.5				

Box quantity: (D) = 500; (M) = 1000
For mylar tape, replace box quantity with (T). Example: KN18-6F-T
UL File #E9809
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
600 volts max.
Terminal material: Copper



Tools used with nylon-insulated fork terminals



ERG4500



KT-2500

Terminals

Vinyl-insulated fork terminals



- Molded funnel entry insulator
- Brazed seam
- Internal barrel serrations



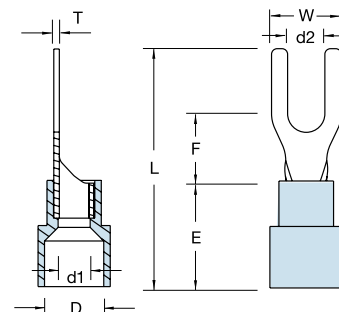
Vinyl-insulated fork terminals

Catalog number	Wire range	Bolt size (d2)		Dimension inch mm						
				W	F	L	E	D	d1	T
KV18-6F-M	22–16 AWG 0.5–1.5 mm ²	#6	0.146	0.252	0.256	0.866	0.433	0.157	0.067	0.030
			3.7	6.4	6.5	22.0	11.0	4.0	1.7	0.75
KV18-8F-M		#8	0.169	0.252	0.256	0.866				
			4.3	6.4	6.5	22.0				
KV18-10F-M		#10	0.209	0.319	0.256	0.866				
			5.3	8.1	6.5	22.0				
KV18-14F-M		¼	0.252	0.374	0.256	0.866				
			6.4	9.5	6.5	22.0				
KV14-6F-M	16–14 AWG 1.5–2.5 mm ²	#6	0.146	0.236	0.256	0.866	0.433	0.177	0.091	0.031
			3.7	6.0	6.5	22.0	11.0	4.5	2.3	0.8
KV14-8F-M		#8	0.169	0.252	0.256	0.866				
			4.3	6.4	6.5	22.0				
KV14-10F-M		#10	0.209	0.311	0.256	0.866				
			5.3	7.9	6.5	22.0				
KV14-14F-M		¼	0.252	0.366	0.256	0.866				
			6.4	9.3	6.5	22.0				
KV10-6F-D	12–10 AWG 4–6 mm ²	#6	0.146	0.283	0.295	0.961	0.512	0.252	0.134	0.039
			3.7	7.2	7.5	24.4	13.0	6.4	3.4	1.0
KV10-8F-D		#8	0.169	0.327	0.276	1.004				
			4.3	8.3	7.0	25.5				
KV10-10F-D		#10	0.209	0.354	0.276	1.004				
			5.3	9.0	7.0	25.5				
KV10-14F-D		¼	0.252	0.354	0.276	1.004				
			6.4	9.0	7.0	25.5				

Box quantity: (D) = 500; (M) = 1000
For mylar tape, replace box quantity with (T). Example: KV18-6F-T
UL File #E9809
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
600 volts max.
Terminal material: Copper



Tools used with vinyl-insulated fork terminals



ERG4500



KT-2500

Terminals

Non-insulated fork terminals



- Chamfered barrel
- Brazed seam
- Internal barrel serrations



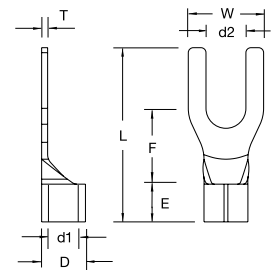
Non-insulated fork terminals

Catalog number	Wire range	Bolt size (d2)	Dimension inch mm							
			W	F	L	E	D	d1	T	
K18-6F-M	22-16 AWG 0.5-1.5 mm²	#6	0.146	0.252	0.256	0.630	0.189	0.134	0.067	0.030
			3.7	6.4	6.5	16.0	4.8	3.4	1.7	0.75
K18-8F-M		#8	0.169	0.252						
			4.3	6.4						
K18-10F-M		#10	0.209	0.319						
			5.3	8.1						
K14-6F-M	16-14 AWG 1.5-2.5 mm²	#6	0.146	0.236	0.256	0.630	0.189	0.161	0.091	0.031
			3.7	6.0	6.5	16.0	4.8	4.1	2.3	0.8
K14-8F-M		#8	0.169	0.252						
			4.3	6.4						
K14-10F-M		#10	0.209	0.319						
			5.3	8.1						
K10-6F-M	12-10 AWG 4-6 mm²	#6	0.146	0.283	0.295	0.685	0.236	0.220	0.134	0.039
			3.7	7.2	7.5	17.4	6.0	5.6	3.4	1.0
K10-8F-M		#8	0.169	0.327	0.276	0.728				
			4.3	8.3	7.0	18.5				
K10-10F-M		#10	0.209	0.354						
			5.3	9.0						
K10-14F-M		¾	0.252	0.354						
			6.4	9.0						

Box quantity: (M) = 1000
For mylar tape, replace box quantity with (T). Example: K18-6F-T
UL File #E9809
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Terminal material: Copper



Tools used with non-insulated fork terminals



ERG4002 or WT111M



KT-2500

Terminals

Nylon-insulated locking fork terminals



- Metal insulation sleeve
- Molded insulator
- Internal barrel serrations
- Funnel entry



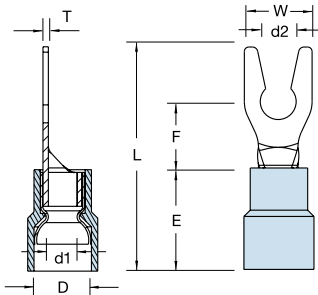
Nylon-insulated locking fork terminals

Catalog number	Wire range	Bolt size (d2)	Dimension inch mm							
			W	F	L	E	D	d1	T	
KN18-6LF-M	22-16 AWG 0.5-1.5 mm ²	#6	0.146	0.252	0.256	0.866	0.433	0.177	0.067	0.030
			3.7	6.4	6.5	22.0	11.0	4.5	1.7	0.75
KN18-8LF-M		#8	0.169	0.283						
			4.3	7.2						
KN18-10LF-M		#10	0.209	0.319						
			5.3	8.1						
KN14-6LF-M	16-14 AWG 1.5-2.5 mm ²	#6	0.146	0.236	0.256	0.866	0.433	0.205	0.091	0.031
			3.7	6.0	6.5	22.0	11.0	5.2	2.3	0.8
KN14-8LF-M		#8	0.169	0.283						
			4.3	7.2						
KN14-10LF-M		#10	0.209	0.319						
			5.3	8.1						
KN10-6LF-D	12-10 AWG 4-6 mm ²	#6	0.146	0.327	0.276	0.992	0.512	0.276	0.134	0.039
			3.7	8.3	7.0	25.2	13.0	7.0	3.4	1.0
KN10-8LF-D		#8	0.169	0.327						
			4.3	8.3						
KN10-10LF-D		#10	0.209	0.354						
			5.3	9.0						

Box quantity: (D) = 500; (M) = 1000
For mylar tape, replace box quantity with (T). Example: KN18-6LF-T
UL File #E9809, CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
600 volts max.
Terminal material: Copper



Tools used with nylon-insulated locking fork terminals



ERG4500



KT-2500

Terminals

Vinyl-insulated locking fork terminals



- Molded funnel entry insulator
- Internal barrel serrations



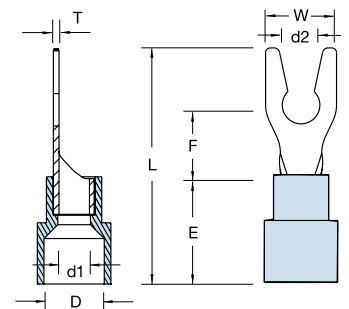
Vinyl-insulated locking fork terminals

Catalog number	Wire range	Bolt size (d2)		Dimension inch mm							
				W	F	L	E	D	d1	T	
KV18-6LF-M	22-16 AWG 0.5-1.5 mm ²	#6	0.146 3.7	0.252 6.4	0.256 6.5	0.866 22.0	0.433 11.0	0.157 4.0	0.067 1.7	0.030 0.75	
KV18-8LF-M		#8	0.169 4.3	0.283 7.2							
KV18-10LF-M		#10	0.209 5.3	0.319 8.1							
KV14-6LF-M	16-14 AWG 1.5-2.5 mm ²	#6	0.146 3.7	0.236 6.0	0.256 6.5	0.866 22.0	0.433 11.0	0.177 4.5	0.091 2.3	0.031 0.8	
KV14-8LF-M		#8	0.169 4.3	0.283 7.2							
KV14-10LF-M		#10	0.209 5.3	0.319 8.1							
KV10-6LF-D	12-10 AWG 4-6 mm ²	#6	0.146 3.7	0.327 8.3	0.276 7.0	0.992 25.2	0.512 13.0	0.252 6.4	0.134 3.4	0.039 1.0	
KV10-8LF-D		#8	0.169 4.3	0.327 8.3							
KV10-10LF-D		#10	0.209 5.3	0.354 9.0							

Box quantity: (D) = 500; (M) = 1000
For mylar tape, replace box quantity with (T). Example: KV18-6LF-T
UL File #E9809, CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
600 volts max.
Terminal material: Copper



Tools used with vinyl-insulated locking fork terminals



ERG4500



KT-2500

Terminals

Non-insulated locking fork terminals



- Chamfered barrel
- Brazed seam
- Internal barrel serrations

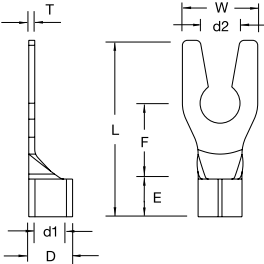


Non-insulated locking fork terminals

Catalog number	Wire range	Bolt size (d2)	Dimension inch mm							
			W	F	L	E	D	d1	T	
K18-6LF-M	22-16 AWG 0.5-1.5 mm²	#6	0.146	0.252	0.256	0.630	0.189	0.134	0.067	0.030
			3.7	6.4	6.5	16.0	4.8	3.4	1.7	0.75
K18-8LF-M		#8	0.169	0.283						
			4.3	7.2						
K18-10LF-M		#10	0.209	0.319						
				5.3	8.1					
K14-6LF-M	16-14 AWG 1.5-2.5 mm²	#6	0.146	0.236	0.256	0.630	0.189	0.161	0.091	0.031
			3.7	6.0	6.5	16.0	4.8	4.1	2.3	0.8
K14-8LF-M		#8	0.169	0.283						
			4.3	7.2						
K14-10LF-M		#10	0.209	0.319						
				5.3	8.1					
K10-6LF-M	12-10 AWG 4-6 mm²	#6	0.146	0.327	0.276	0.717	0.236	0.220	0.134	0.039
			3.7	8.3	7.0	18.2	6.0	5.6	3.4	1.0
K10-8LF-M		#8	0.169	0.327						
			4.3	8.3						

Box quantity: (M) = 1000
For mylar tape, replace box quantity with (T). Example: K18-6LF-T
UL File #E9809
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.
Terminal material: Copper



Tools used with non-insulated locking fork terminals



ERG4002 or WT111M



KT-2500

Terminals

Nylon-insulated flanged fork terminals



- Reduces slippage in high vibration applications
- Metal insulation sleeve
- Molded insulator
- Internal barrel serrations
- Funnel entry



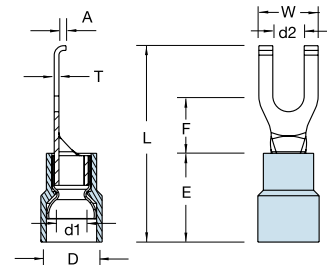
Nylon-insulated flanged fork terminals

Catalog number	Wire range	Bolt size (d2)	Dimension inch mm								
			W	F	L	E	D	d1	A	T	
KN18-8FF-M	22-16 AWG	#8	0.169	0.335	0.283	1.004	0.433	0.177	0.067	0.059	0.030
	0.5-1.5 mm²		4.3	8.5	7.2	25.5	11.0	4.5	1.7	1.5	0.75
KN14-10FF-M	16-14 AWG	#10	0.209	0.335	0.283	.945	0.433	0.205	0.091	0.059	0.031
	1.5-2.5 mm²		5.3	8.5	7.2	24.0	11.0	5.2	2.3	1.5	0.8
KN10-6FF-D	12-10 AWG	#6	0.146	0.335	0.295	1.063	0.512	0.276	0.134	0.059	0.039
	4-6 mm²		3.7	8.5	7.5	27.0	13.0	7.0	3.4	1.5	1.0
KN10-8FF-D		#8	0.169	0.335	0.295	1.063					
			4.3	8.5	7.5	27.0					
KN10-10FF-D		#10	0.209	0.335	0.295	1.063					
			5.3	8.5	7.5	27.0					

Box quantity: (D) = 500; (M) = 1000
For mylar tape, replace box quantity with (T). Example: KN18-6FF-T
UL File #E9809, CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
600 volts max.
Terminal material: Copper



Tools used with nylon-insulated flanged fork terminals



ERG4500



KT-2500

Terminals

Vinyl-insulated flanged fork terminals



- Reduces slippage in high vibration applications
- Molded funnel entry insulator
- Brazed seam
- Internal barrel serrations



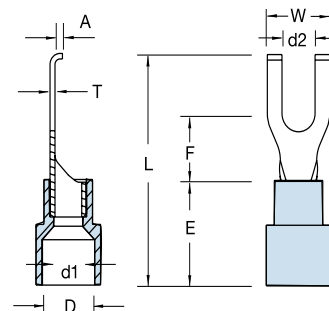
Vinyl-insulated flanged fork terminals

Catalog number	Wire range	Bolt size (d2)		Dimension inch mm							
				W	F	L	E	D	d1	A	T
KV18-6FF-M	22-16 AWG 0.5-1.5 mm ²	#6	0.146	0.252	0.201	0.787	0.433	0.157	0.067	0.059	0.030
			3.7	6.4	5.1	20.0	11.0	4.0	1.7	1.5	0.75
KV18-10FF-M		#10	0.209	0.335	0.283	1.004					
			5.3	8.5	7.2	25.5					
KV14-6FF-M	16-14 AWG 1.5-2.5 mm ²	#6	0.146	0.335	0.283	0.945	0.433	0.177	0.091	0.059	0.031
			3.7	8.5	7.2	24.0	11.0	4.5	2.3	1.5	0.8
KV14-8FF-M		#8	0.169	0.335	0.283	0.945					
			4.3	8.5	7.2	24.0					
KV14-10FF-M		#10	0.209	0.335	0.283	.945					
			5.3	8.5	7.2	24.0					
KV10-8FF-D	12-10 AWG 4-6 mm ²	#8	0.169	0.299	0.244	1.004	0.512	0.252	0.134	0.059	0.039
			4.3	7.6	6.2	25.5	13.0	6.4	3.4	1.5	1.0
KV10-10FF-D		#10	0.209	0.299	0.244	1.004					
			5.3	7.6	6.2	25.5					

Box quantity: (D) = 500; (M) = 1000
For mylar tape, replace box quantity with (T). Example: KV18-6FF-T
UL File #E9809, CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
600 volts max.
Terminal material: Copper



Tools used with vinyl-insulated flanged fork terminals



ERG4500



KT-2500

Terminals

Non-insulated flanged fork terminals



- Reduces slippage in high vibration applications
- Chamfered barrel
- Brazed seam
- Internal barrel serrations



Non-insulated flanged fork terminals

Catalog number	Wire range	Bolt size (d2)	Dimension inch mm							
			W	F	L	E	D	d1	A	T
K14-8FF-M	16–14 AWG	#8	0.169	0.335	0.283	0.709	0.189	0.161	0.091	0.059
	1.5–2.5 mm ²		4.3	8.5	7.2	18.0	4.8	4.1	2.3	1.5
K14-10FF-M		#10	0.209	0.335	0.283	0.709				
			5.3	8.5	7.2	18.0				
K10-8FF-M	12–10 AWG	#8	0.169	0.335	0.295	0.787	0.236	0.220	0.134	0.059
	4–6 mm ²		4.3	8.5	7.5	20.0	6.0	5.6	3.4	1.5
K10-10FF-M		#10	0.209	0.335	0.295	0.787				
			5.3	8.5	7.5	20.0				

Box quantity: (M) = 1000

For mylar tape, replace box quantity

with (T). Example: K18-6FF-T

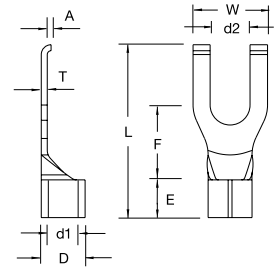
UL File #E9809

CSA File #LR4503

See pages in back of catalog for complete tool information.

Tool and die selection chart on page 47.

Terminal material: Copper



Tools used with non-insulated flanged fork terminals



ERG4002 or WT111M



KT-2500

Terminals

Nylon-insulated blade terminals



- For use in DIN-style blade terminal blocks
- Metal insulation sleeve
- Molded insulator
- Internal barrel serrations
- Funnel entry



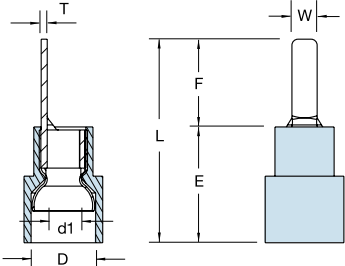
Nylon-insulated blade terminals

Catalog number	Wire range	Dimension inch mm						
		W	F	L	E	D	d1	T
KN18-10BL-M	22–16 AWG 0.5–1.5 mm²	0.091	0.394	0.819	0.433	0.177	0.067	0.030
		2.3	10.0	20.8	11.0	4.5	1.7	0.75
KN18-18BL-M		0.087	0.709	1.134				
		2.2	18.0	28.8				
KN14-10BL-M	16–14 AWG 1.5–2.5 mm²	0.094	0.394	0.819	0.433	0.205	0.091	0.031
		2.4	10.0	20.8	11.0	5.2	2.3	0.8
KN14-18BL-M		0.087	0.709	1.134				
		2.2	18.0	28.8				
KN10-10BL-D	12–10 AWG 4–6 mm²	0.110	0.394	0.906	0.512	0.276	0.134	0.039
		2.8	10.0	23.0				

Box quantity: (D) = 500; (M) = 1000
For mylar tape, replace box quantity with (T). Example: KN18-10BL-T
UL File #E9809
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
600 volts max.
Terminal material: Copper



Tools used with nylon-insulated blade terminals



ERG4500



KT-2500

Terminals

Vinyl-insulated blade terminals



- For use in DIN-style blade terminal blocks
- Molded funnel entry insulator
- Brazed seam
- Internal barrel serrations



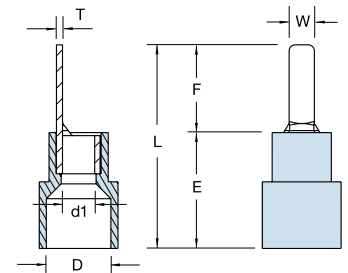
Vinyl-insulated blade terminals

Catalog number	Wire range	Dimension inch mm						
		W	F	L	E	D	d1	T
KV18-10BL-M	22-16 AWG	0.091 2.3	0.394 10.0	0.819 20.8	0.433 11.0	0.157 4.0	0.067 1.7	0.030 0.75
KV14-10BL-M	16-14 AWG	0.094 2.4	0.394 10.0	0.819 20.8	0.433 11.0	0.177 4.5	0.091 2.3	0.031 0.8
KV14-18BL-M	1.5-2.5 mm ²	0.087 2.2	0.709 18.0	1.134 28.8				
KV10-10BL-D	12-10 AWG 4-6 mm ²	0.110 2.8	0.394 10.0	0.906 23.0	0.512 13.0	0.252 6.4	0.134 3.4	0.039 1.0

Box quantity: (D) = 500; (M) = 1000
For mylar tape, replace box quantity with (T). Example: KV18-10BL-T
UL File #E9809
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
600 volts max.
Terminal material: Copper



Tools used with vinyl-insulated blade terminals



ERG4500



KT-2500

Terminals

Nylon-insulated pin terminals



Nylon-insulated pin terminals

- For use in pin-style terminal blocks
- Metal insulation sleeve
- Molded insulator
- Internal barrel serrations
- Funnel entry

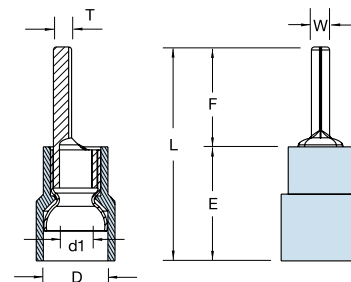


Catalog number	Wire range	Dimension inch mm						
		W	F	L	E	D	d1	T
KN18-12PT-M	22-16 AWG	0.075	0.472	0.898	0.433	0.177	0.067	0.030
	0.5-1.5 mm ²	1.9	12.0	22.8	11.0	4.5	1.7	0.75
KN14-12PT-M	16-14 AWG	0.075	0.472	0.898	0.433	0.205	0.091	0.031
	1.5-2.5 mm ²	1.9	12.0	22.8	11.0	5.2	2.3	0.8
KN10-14PT-D	12-10 AWG	0.110	0.551	1.063	0.512	0.276	0.134	0.039
	4-6 mm ²	2.8	14.0	27.0	13.0	7.0	3.4	1.0

Box quantity: (D) = 500; (M) = 1000
For mylar tape, replace box quantity with (T). Example: KN18-12PT-T
UL File #E9809
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
600 volts max.
Terminal material: Copper



Vinyl-insulated pin terminals



Vinyl-insulated pin terminals

- For use in pin-style terminal blocks
- Molded funnel entry insulator
- Brazed seams
- Internal barrel serrations

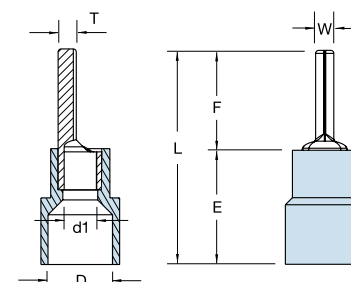


Catalog number	Wire range	Dimension inch mm						
		W	F	L	E	D	d1	T
KV18-12PT-M	22-16 AWG	0.075	0.472	0.898	0.433	0.157	0.067	0.030
	0.5-2.5 mm ²	1.9	12.0	22.8	11.0	4.0	1.7	0.75
KV14-12PT-M	16-14 AWG	0.075	0.472	0.898	0.433	0.177	0.091	0.031
	1.5-2.5 mm ²	1.9	12.0	22.8	11.0	4.5	2.3	0.8
KV10-14PT-D	12-10 AWG	0.110	0.551	1.063	0.512	0.252	0.134	0.039
	4-6 mm ²	2.8	14.0	27.0	13.0	6.4	3.4	1.0

Box quantity: (D) = 500; (M) = 1000
For mylar tape, replace box quantity with (T). Example: KV18-12PT-T
UL File #E9809
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
600 volts max.
Terminal material: Copper



Tools used with nylon- and vinyl-insulated pin terminals



ERG4500



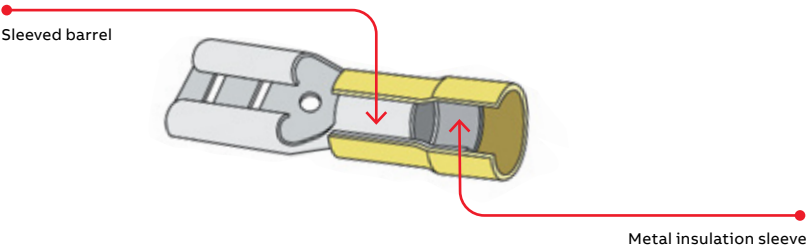
KT-2500

Disconnects

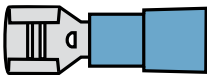
Features and benefits

Nylon- and vinyl-insulated disconnects

- **Sleeved barrel** — Ensures barrel does not separate during crimping.
- **Funnel entry insulators** — Funnel entry speeds installation and reduces wire hang up.
- **Partial and fully insulated** — Offers a wide range of products to meet virtually any application
- **Metal insulation sleeve** — Sleeve crimps wire insulation, providing high-vibration resistance and conductor strain relief.
- **Ratings** — UL listed, cULus listed, CSA, 600 V at 105 °C for nylon and vinyl.



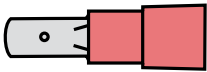
Design features of Spec-Kon disconnects



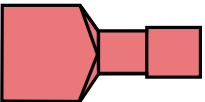
Female disconnect
Provides easy installation and removal from male tabs and auxiliary equipment



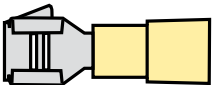
Fully insulated female
Standard female tab with the safety and reliability of complete insulation



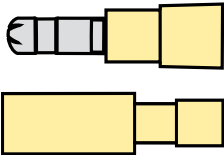
Male disconnect
Tab-style male disconnects are fast and reliable



Fully insulated male
Standard male tab with the safety and reliability of complete insulation



Female piggy back
Provides the option for multiple circuits using one termination point



Bullet disconnect and receptacle
Fast and reliable alternative to the tab style featuring a lower profile to reduce space requirements

Performance requirements

Description	Wire size (AWG)						
	#22	#20	#18	#16	#14	#12	#10
UL 310 (disconnects)							
Test current for max. 30 °C rise (amps)	3	4	7	10	15	20	24
Min. tensile strength* (lbs.)	8	13	20	30	50	70	80

* Pull-out force of the crimped terminal.

Applicable Spec-Kon products meet or exceed the following test specifications:

- UL 310 (disconnects)
- CSA

UL listed products are shown with the applicable logos in the product section.
UL file #E66716 (disconnects)
CSA file #LR4503

Disconnects

Nylon-insulated female disconnects



110 Tab size



187 Tab size



250 Tab size

Nylon-insulated female disconnects

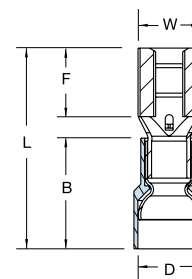


Catalog number	Wire range	Tab size inch	Dimension inch mm					
			W	F	L	B	D	T
KN18-187-20FD-M	22-16 AWG 0.5-1.5 mm ²	0.187 x 0.020	0.197 5.0	0.252 6.4	0.787 20.0	0.433 11.0	0.157 4.0	0.016 0.4
KN18-187-32FD-M		0.187 x 0.032	0.197 5.0	0.252 6.4	0.787 20.0			
KN18-250FD-M		0.250 x 0.032	0.260 6.6	0.287 7.3	0.846 21.5			
KN14-110-20FD-M	16-14 AWG 1.5-2.5 mm ²	0.110 x 0.020	0.126 3.2	0.252 6.4	0.772 19.6	0.433 11.0	0.197 5.0	0.012 0.3
KN14-187-20FD-M		0.187 x 0.020	0.197 5.0	0.256 6.5	0.787 20.0			0.016 0.4
KN14-187-32FD-M		0.187 x 0.032	0.197 5.0	0.256 6.5	0.787 20.0			
KN14-250FD-M		0.250 x 0.032	0.260 6.6	0.287 7.3	0.846 21.5			
KN10-110-20FD-D	12-10 AWG 4-6 mm ²	0.110 x 0.020	0.126 3.2	0.343 8.7	0.866 22.0	0.512 13.0	0.256 6.5	0.016 0.4
KN10-110-32-FD-D		0.110 x 0.032	0.126 3.2	0.343 8.7	0.866 22.0			
KN10-187-20FD-D		0.187 x 0.020	0.197 5.0	0.256 6.5	0.866 22.0			
KN10-250FD-D		0.250 x 0.032	0.260 6.6	0.287 7.3	0.925 23.5			

Box quantity: (D) = 500; (M) = 1000
For mylar tape, replace box quantity with (T). Example: KN18-110FD-T
UL File #E66716
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
600 volts max.
Terminal material: Brass with copper sleeve



Tools used with nylon-insulated female disconnects



ERG4500



KT-2500

Disconnects

Vinyl-insulated female disconnects



110 Tab size



187 Tab size



250 Tab size

Vinyl-insulated female disconnects

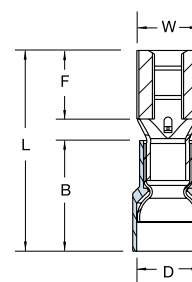


Catalog number	Wire range	Tab size inch	Dimension inch mm					
			W	F	L	B	D	T
KV18-110-020FD-M	22-16 AWG 0.5-1.5 mm ²	0.110 x 0.020	0.126 3.2	0.256 6.5	0.728 19.0	0.413 10.5	0.150 3.8	0.012 0.3
KV18-110-32-FD-M		0.110 x 0.032	0.126 3.2	0.256 6.5	0.728 19.0			
KV18-187-20FD-M		0.187 x 0.020	0.197 5.0	0.252 6.4	0.764 19.4			0.016 0.4
KV18-250FD-M		0.250 x 0.032	0.260 6.6	0.287 7.3	0.819 20.8			
KV14-110-020FD-M	16-14 AWG 1.5-2.5 mm ²	0.110 x 0.020	0.126 3.2	0.256 6.5	0.748 19.0	0.413 10.5	0.185 4.7	0.012 0.3
KV14-110-032FD-M		0.110 x 0.032	0.126 3.2	0.256 6.5	0.748 19.0			
KV14-187-020FD-M		0.187 x 0.020	0.197 5.0	0.252 6.4	0.764 19.4			0.016 0.4
KV14-187-32-FD-M		0.187 x 0.032	0.197 5.0	0.252 6.4	0.764 19.4			
KV14-250FD-M		0.250 x 0.032	0.260 6.6	0.287 7.3	0.819 20.8			
KV10-110-20FD-D	12-10 AWG 4-6 mm ²	0.110 x 0.020	0.126 3.2	0.343 8.7	0.866 22.0	0.512 13.0	0.244 6.2	0.016 0.4
KV10-110-32FD-D		0.110 x 0.032	0.126 3.2	0.343 8.7	0.866 22.0			
KV10-187-20FD-D		0.187 x 0.020	0.197 5.0	0.256 6.5	0.866 22.0			
KV10-187-32FD-D		0.187 x 0.032	0.197 5.0	0.256 6.5	0.866 22.0			
KV10-250FD-D		0.250 x 0.032	0.260 6.6	0.287 7.3	0.917 23.3			

Box quantity: (D) = 500; (M) = 1000
For mylar tape, replace box quantity with (T). Example: KV18-110FD-T
UL File #E66716
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
300 volts max.
Terminal material: Brass with copper sleeve



Tools used with vinyl-insulated female disconnects



ERG4500



KT-2500

Disconnects

Nylon-insulated male disconnects



- For use with female disconnects
- Metal insulation sleeve
- Molded insulator
- Internal barrel serrations
- Funnel entry



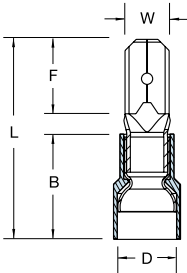
Nylon-insulated male disconnects

Catalog number	Wire range	Tab size inch	Dimension inch mm					
			W	F	L	B	D	T
KN18-250MD-M	22-16 AWG	0.250 x 0.032	0.250	0.303	0.866	0.413	0.150	0.016
	0.5-1.5 mm²		6.35	7.7	22.0	11.0	4.0	0.4
KN14-250MD-M	16-14 AWG	0.250 x 0.032	0.250	0.303	0.866	0.433	0.197	0.016
	1.5-2.5 mm²		6.35	7.7	22.0	11.0	5.0	0.4

Box quantity: (D) = 500; (M) = 1000
For mylar tape, replace box quantity with (T). Example: KN18-250MD-T
UL File #E66716
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
600 volts max.
Terminal material: Brass with copper sleeve



Vinyl-insulated male disconnects



- For use with female disconnects
- Metal insulation sleeve
- Easy entry copper sleeve



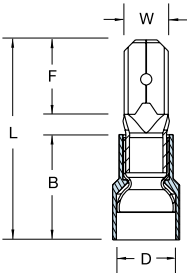
Vinyl-insulated male disconnects

Catalog number	Wire range	Tab size inch	Dimension inch mm					
			W	F	L	B	D	T
KV18-250MD-M	22-16 AWG	0.250 x 0.032	0.250	0.303	0.858	0.413	0.150	0.016
	0.5-1.5 mm²		6.35	7.7	21.8	10.5	3.8	0.4
KV14-250MD-M	16-14 AWG	0.250 x 0.032	0.250	0.303	0.858	0.413	0.185	0.016
	1.5-2.5 mm²		6.35	7.7	21.8	10.5	4.7	0.4

Box quantity: (D) = 500; (M) = 1000
For mylar tape, replace box quantity with (T). Example: KV18-250MD-T
UL File #E66716
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
300 volts max.
Terminal material: Brass with copper sleeve



Tools used with nylon- and vinyl-insulated male disconnects



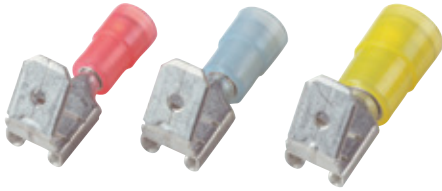
ERG4500



KT-2500

Disconnects

Nylon-insulated piggy back disconnects



- Male and female tabs combined
- Additional conductors may be added to existing installations without changing blocks
- Metal insulation sleeve
- Molded insulator
- Internal barrel serrations
- Funnel entry



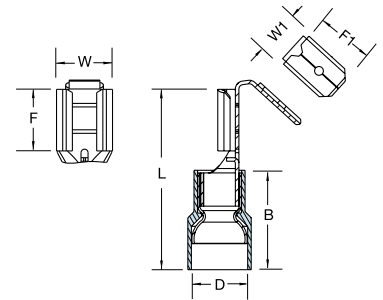
Nylon-insulated piggy back disconnects

Catalog number	Wire range	Tab size inch	Dimension inch mm							
			W	W1	F	F1	L	B	D	T
KN18-250PD-M	22-16 AWG 0.5-1.5 mm ²	0.250 x 0.032	0.260 6.6	0.250 6.35	0.315 8.0	0.323 8.2	0.906 23.0	0.433 11.0	0.157 4.0	0.016 0.4
KN14-250PD-M	16-14 AWG 1.5-2.5 mm ²	0.250 x 0.032	0.260 6.6	0.250 6.35	0.315 8.0	0.323 8.2	0.906 23.0	0.433 11.0	0.197 5.0	0.016 0.4
KN10-250PD-D	12-10 AWG 4-6 mm ²	0.250 x 0.032	0.260 6.6	0.250 6.35	0.315 8.0	0.323 8.2	0.945 24.0	0.512 13.0	0.256 6.5	0.016 0.4

Box quantity: (D) = 500; (M) = 1000
UL File #E66716
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
600 volts max.
Terminal material: Brass with copper sleeve



Vinyl-insulated piggy back disconnects



- Male and female tabs combined
- Additional conductors may be added to existing installations without changing blocks
- Brazed seam
- Internal barrel serrations
- Funnel entry



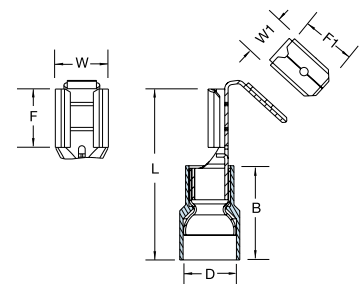
Vinyl-insulated piggy back disconnects

Catalog number	Wire range	Tab size inch	Dimension inch mm							
			W	W1	F	F1	L	B	D	T
KV18-250PD-M	22-16 AWG 0.5-1.5 mm ²	0.250 x 0.032	0.260 6.6	0.250 6.35	0.315 8.0	0.323 8.2	0.886 22.5	0.413 10.5	0.150 3.8	0.016 0.4
KV14-250PD-M	16-14 AWG 1.5-2.5 mm ²	0.250 x 0.032	0.260 6.6	0.250 6.35	0.315 8.0	0.323 8.2	0.886 22.5	0.413 10.5	0.185 4.7	0.016 0.4
KV10-250PD-D	12-10 AWG 4-6 mm ²	0.250 x 0.032	0.260 6.6	0.250 6.35	0.315 8.0	0.323 8.2	0.945 24.0	0.512 13.0	0.244 6.2	0.016 0.4

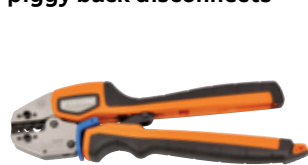
Box quantity: (D) = 500; (M) = 1000
UL File #E66716
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
300 volts max.
Terminal material: Brass with copper sleeve



Tools used with nylon- and vinyl-insulated piggy back disconnects



ERG4500



KT-2500

Disconnects

Nylon fully insulated female disconnects



110 Tab size



187 Tab size



250 Tab size

- Fully insulated
- Metal insulation sleeve
- Molded insulator
- Internal barrel serrations
- Funnel entry



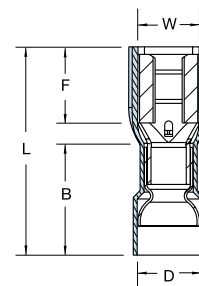
Nylon fully insulated female disconnects

Catalog number	Wire range	Tab size inch	Dimension inch mm					
			W	F	L	B	D	T
KNF18-110-020FD-M	22-16 AWG 0.5-1.5 mm ²	0.110 x 0.020	0.126 3.2	0.252 6.4	0.756 19.2	0.433 11.0	0.157 4.0	0.012 0.3
KNF18-110-32FDM		0.110 x 0.032	0.126 3.2	0.252 6.4	0.756 19.2			
KNF18-187-020FD-M		0.187 x 0.020	0.197 5.0	0.256 6.5	0.795 20.2			0.016 0.4
KNF18-187-032FD-M		0.187 x 0.032	0.197 5.0	0.256 6.5	0.795 20.2			
KNF18-250FD-M		0.250 x 0.032	0.260 6.6	0.303 7.7	0.846 21.5			
KNF14-187-20FDM	16-14 AWG 1.5-2.5 mm ²	0.187 x 0.020	0.197 5.0	0.256 6.5	0.795 20.2	0.433 11.0	0.256 6.0	0.016 0.4
KNF14-187-32FDM		0.187 x 0.032	0.197 5.0	0.256 6.5	0.795 20.2			
KNF14-250FD-M		0.250 x 0.032	0.260 6.6	0.287 7.3	0.846 21.5			
KNF10-250FD-D	12-10 AWG 4-6 mm ²	0.250 x 0.032	0.260 6.6	0.287 7.3	0.953 24.2	0.512 13.0	0.256 6.5	0.016 0.4

Box quantity: (D) = 500; (M) = 1000
For mylar tape, replace box quantity with (T). Example: KNF18-110-20FD-T
UL File #E66716
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
600 volts max.
Terminal material: Brass with copper sleeve



Tools used with nylon fully insulated female disconnects



ERG4500



KT-2500

Disconnects

Vinyl fully insulated female disconnects



- Fully insulated
- Brazed seam
- Internal barrel serrations
- Funnel entry

Vinyl fully insulated female disconnects

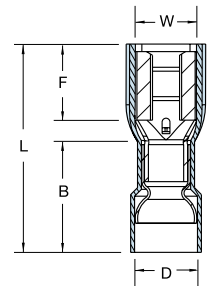


Catalog number	Wire range	Tab size inch	Dimension inch mm					
			W	F	L	B	D	T
KVF18-110-20FDM	22–16 AWG 0.5–1.5 mm ²	0.110 x 0.020	0.126	0.256	0.748	0.413	0.150	0.012
			3.2	6.5	19.0	10.5	3.8	0.3
KVF18-110-32FDM		0.110 x 0.032	0.126	0.256	0.748			
			3.2	6.5	19.0			
KVF18-187-20FDM		0.187 x 0.020	0.197	0.252	0.807			0.016
			5.0	6.4	20.5			0.4
KVF18-187-32FDM		0.187 x 0.032	0.197	0.252	0.807			
			5.0	6.4	20.5			
KVF18-250FD-M		0.250 x 0.032	0.260	0.287	0.858			
			6.6	7.3	21.8			
KVF14-110-20FDM	16–14 AWG 1.5–2.5 mm ²	0.110 x 0.020	0.126	0.256	0.748	0.413	0.185	0.012
			3.2	6.5	19.0	10.5	4.7	0.3
KVF14-110-032FD-M		0.110 x 0.032	0.126	0.256	0.748			
			3.2	6.5	19.0			
KV14-187-020FD-M		0.187 x 0.020	0.197	0.252	0.796			.016
			5.0	6.4	20.2			0.4
KVF14-187-32FDM		0.187 x 0.032	0.197	0.252	0.796			
			5.0	6.4	20.2			
KVF14-250FD-M		0.250 x 0.032	0.260	0.287	0.874			
			6.6	7.3	22.2			
KVF10-250FD-D	12–10 AWG 4–6 mm ²	0.250 x 0.032	0.260	0.287	0.953	.492	0.244	0.016
			6.6	7.3	24.2	12.5	6.2	0.4

Box quantity: (D) = 500; (M) = 1000
For mylar tape, replace box quantity with (T). Example: KVF18-110-20FD-T
UL File #E66716
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
300 volts max.
Terminal material: brass with copper sleeve



Tools used with vinyl fully insulated female disconnects



ERG4500



KT-2500

Disconnects

Nylon fully insulated male disconnects



- Fully insulated
- Metal insulation sleeve
- Molded insulator
- Internal barrel serrations
- Funnel entry



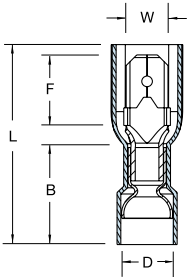
Nylon fully insulated male disconnects

Catalog number	Wire range	Tab size inch	Dimension inch mm					
			W	F	L	B	D	T
KNF18-250MD-D	22-16 AWG	0.250 x 0.032	0.250	0.303	0.976	0.433	0.157	0.016
	0.5-1.5 mm²		6.35	7.7	24.0	11.0	4.0	0.4
KNF14-250MD-D	16-14 AWG	0.250 x 0.032	0.250	0.303	0.976	0.433	0.197	0.016
	1.5-2.5 mm²		7.7	24.0		11.0	5.0	0.4
KNF10-250MD-D	12-10 AWG	0.250 x 0.032	0.250	0.303	1.016	0.512	0.256	0.016
	4-6 mm²		6.35	7.7	25.8	13.0	6.5	0.4

Box quantity: (D) = 500
UL File #E66716
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
600 volts max.
Terminal material: Brass with copper sleeve
Yellow male disconnect not shown.



Tools used with nylon fully insulated male disconnects



ERG4500



KT-2500

Disconnects

Nylon fully insulated female flag disconnects



- Fully insulated
- Molded funnel entry insulator
- Internal barrel serrations

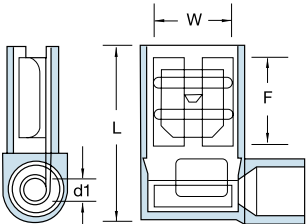
Nylon fully insulated female flag disconnects

Catalog number	Wire range	Tab size inch	Dimension inch mm				
			W	F	L	d1	T
KNF18-187-20FFD-M	22-18 AWG 0.5-1.5 mm ²	0.187 x 0.020	0.197 5.0	0.276 7.0	0.591 15.0	0.063	0.016
KNF18-187-32FFD-M		0.187 x 0.032	0.197 5.0	0.276 7.0	0.591 15.0		
KNF18-250FFD-M		0.250 x 0.032	0.260 6.6	0.299 7.6	0.598 15.2		
KNF14-187-20FFD-M	16-14 AWG 1.5-2.5 mm ²	0.187 x 0.020	0.197 5.0	0.276 7.0	0.598 15.2	0.083	0.016
KNF14-250FFD-M		0.250 x 0.032	0.260 6.6	0.299 7.6	0.598 15.2		

Box quantity: (W)=250; (D) = 500;
(M) = 1000

See pages in back of catalog for complete
tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
300 volts max.
Terminal material: Brass



Disconnects

Nylon fully insulated barrel flag female disconnects



- Fully insulated
- Molded funnel entry insulator
- Internal barrel serrations



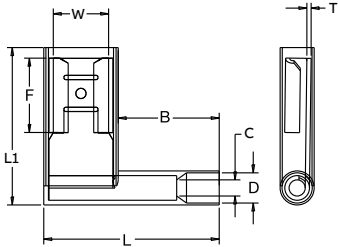
Nylon fully insulated barrel flag female disconnects

Catalog number	Wire range	Tab size inch	Dimension inch mm						
			W	F	L	L 1	B	D	T
KNF18-250BFD-D	22-18 AWG 0.5-1.5 mm ²	0.250 x 0.032	0.260	0.307	0.818	0.653	0.433	0.157	0.015
			6.6	7.8	20.8	16.6	11.0	4.0	0.4
KNF14-250BFD-D	16-14 AWG	0.250 x 0.032	0.260	0.307	0.818	0.653	0.433	0.177	0.015
			6.6	7.8	20.8	16.6	11.0	4.5	0.4
KNF10-250BFD-D	12-10 AWG	0.250 x 0.032	0.260	0.307	0.905	0.697	0.511	0.248	0.015
			6.6	7.8	23.0	17.7	13.0	6.3	0.4

Box quantity: (W)=250; (D) = 500;
(M) = 1000
For mylar tape, replace box quantity
with (T). Example: KVF18-110-20FD-T

See pages in back of catalog for complete
tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
600 volts max.
Terminal material: Brass



Disconnects

Nylon fully insulated bullet receptacles



- Fully insulated
- Metal insulation sleeve
- Molded insulator
- Internal barrel serrations
- Funnel entry



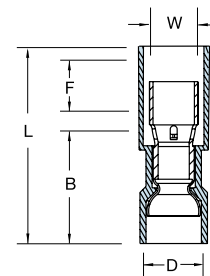
Nylon fully insulated bullet receptacles

Catalog number	Wire range	Dimension inch mm					
		W	F	L	B	D	T
KNF18-4FB-M	22-16 AWG	0.153	0.287	0.992	0.433	0.157	0.016
	0.5-1.5 mm ²	3.9	7.3	25.2	11.0	4.0	0.4
KNF14-4FB-M	16-14 AWG	0.153	0.287	0.992	0.433	0.197	0.016
	1.5-2.5 mm ²	3.9	7.3	25.2	11.0	5.0	0.4

Box quantity: (M) = 1000
For mylar tape, replace box quantity with (T). Example: KNF18-4FB-T
UL File #E66716
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
600 volts max.
Terminal material: Brass with copper sleeve



Vinyl fully insulated bullet receptacles



- Brazed seam
- Internal barrel serrations
- Funnel entry



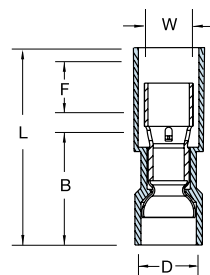
Vinyl fully insulated bullet receptacles

Catalog number	Wire range	Dimension inch mm					
		W	F	L	B	D	T
KVF18-4FB-M	22-16 AWG	0.153	0.287	0.917	0.413	0.150	0.016
	0.5-1.5 mm ²	3.9	7.3	23.3	10.5	3.8	0.4
KVF14-4FB-M	16-14 AWG	0.153	0.287	0.917	0.413	0.185	0.016
	1.5-2.5 mm ²	3.9	7.3	23.3	10.5	4.7	0.4
KVF10-5FB-D*	12-10 AWG	0.193	0.276	0.988	0.492	0.244	0.018
	4-6 mm ²	4.9	7.0	25.1	12.5	6.2	0.45

*Not UL listed
Box quantity: (D) = 500; (M) = 1000
For mylar tape, replace box quantity with (T). Example: KVF18-4FB-T
UL File #E66716
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 75 °C
300 volts max.
Terminal material: Brass with copper sleeve



Tools used with nylon- and vinyl-insulated bullet receptacles



ERG4500



KT-2500

Disconnects

Nylon fully insulated bullet disconnects



- Fully insulated
- Metal insulation sleeve
- Molded insulator
- Internal barrel serrations
- Funnel entry

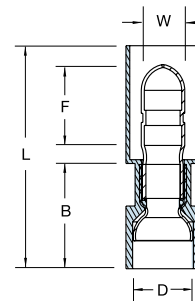
Nylon fully insulated bullet disconnects

Catalog number	Wire range	Dimension inch mm					
		W	F	L	B	D	T
KNF18-4MB-D	22-16 AWG	0.157	0.413	1.063	0.394	0.157	0.016
	0.5-1.5 mm ²	4.0	10.5	27.0	10.0	4.0	0.4
KNF14-4MB-D	16-14 AWG	0.157	0.413	1.063	0.394	0.177	0.016
	1.5-2.5 mm ²	4.0	10.5	27.0	10.0	4.5	0.4

Box quantity: (D) = 500
For mylar tape, replace box quantity with (T). Example: KNF18-4MB-T

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
600 volts max.
Terminal material: Brass with copper sleeve



Vinyl-insulated bullet disconnects



- Brazed seam
- Internal barrel serrations
- Funnel entry

Vinyl-insulated bullet disconnects

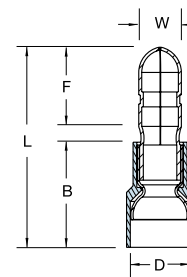


Catalog number	Wire range	Dimension inch mm					
		W	F	L	B	D	T
KV18-4MB-M	22-16 AWG	0.157	0.413	9.25	0.413	0.150	0.016
	0.5-1.5 mm ²	4.0	10.5	23.5	10.5	3.8	0.4
KV14-4MB-M	16-14 AWG	0.157	0.413	9.25	0.413	0.185	0.016
	1.5-2.5 mm ²	4.0	10.5	23.5	10.5	4.7	0.4
KV10-5MB-D	12-10 AWG	0.197	0.335	.945	0.512	0.244	0.016
	4-6 mm ²	5.0	8.5	24.0	13.0	6.2	0.4

Box quantity: (D) = 500
For mylar tape, replace box quantity with (T). Example: KV18-4MB-T
UL File #E66716
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 75 °C
300 volts max.
Terminal material: Brass with copper sleeve



Tools used with nylon- and vinyl-insulated bullet disconnects



ERG4500



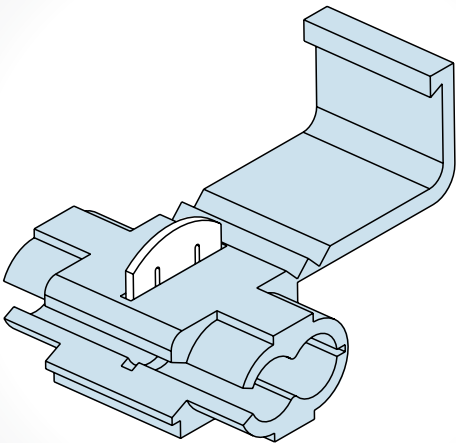
KT-2500

Splices, wire joints and quick splices

Features and benefits

Splices / wire joints / quick splices

- Ideal for in-line splicing.
- Butt splices available in nylon, vinyl and non-insulated types.
- Vinyl quick splices are color-coded for wire ranges and provide quick, easy in-line splicing and tapping.
- Nylon wire joint provides long-lasting, durable connection and can accommodate multiple leads. Rated 300 V at 105 °C.
- Available in 22–10 AWG.

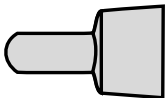


Design features of splices, wire joints and quick splices



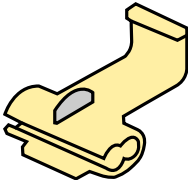
Butt splice

Ideal for in-line splicing applications



Wire joints

Provides terminating point for a group of wires running in one direction



Quick splices

Great for quick in-line splicing and tapping without stripping the wire insulation

Performance requirements

Description	Wire size (AWG)										
	#22	#20	#18	#16	#14	#12	#10	#8	#6	#4	#2
UL 486A (terminals)											
Test current for max. 50 °C rise (amps)	9	12	17	18	30	35	50	70	95	125	145
Min. tensile strength* (lbs.)	8	13	20	30	50	70	80	90	100	140	160

* Pull-out force of the crimped terminal.

Applicable Spec-Kon products meet or exceed the following test specifications:

- UL486A (terminals)
- CSA
- UL486C (splices)

UL listed products are shown with the applicable logos in the product section.
UL file #E9809 (terminals)
CSA file #LR4503

Splices, wire joints and quick splices

Nylon-insulated butt splices



- Internal wire stop
- Brazed seams (yellow — tubular)
- Chamfered funnel entry



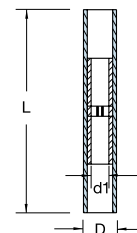
Nylon-insulated butt splice

Catalog number	Wire range	Dimension inch mm		
		L	D	d1
KN18-BS-M	22–16 AWG	1.075	0.126	0.067
	0.5–1.5 mm ²	27.3	3.2	1.7
KN14-BS-M	16–14 AWG	1.075	0.150	0.091
	1.5–2.5 mm ²	27.3	3.8	2.3
KN10-BS-D	12–10 A.W.G	1.110	0.248	0.134
	4–6 mm ²	28.2	6.3	3.4

Box quantity: (W)=250; (D) = 500;
(M) = 1000
UL File #9809
CSA File #LR4503

See pages in back of catalog for complete
tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
600 volts max.
Connector material: Copper



Vinyl-insulated butt splices



- Expanded entry
- Brazed seams (yellow — tubular)
- Internal barrel serrations



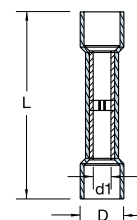
Vinyl-insulated butt splice

Catalog number	Wire range	Dimension inch mm		
		L	D	d1
KV18-BS-M	22–16 AWG	0.986	0.157	0.067
	0.5–1.5 mm ²	24.6	4.0	1.7
KV14-BS-M	16–14 AWG	0.986	0.177	0.091
	1.5–2.5 mm ²	24.6	4.5	2.3
KV10-BS-D	12–10 AWG	1.024	2.48	1.34
	4–6 mm ²	26.0	6.3	3.4

Box quantity: (W)=250; (D) = 500;
(M) = 1000
UL File #E9809
CSA File #LR4503

See pages in back of catalog for complete
tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 75 °C
600 volts max.
Terminal material: Copper



Tool used with nylon- and vinyl-insulated butt splices



ERG4500

Splices, wire joints and quick splices

Non-insulated butt splices



- Chamfered barrel entry
- Seamless barrel construction
- Wire stop

Non-insulated butt splice

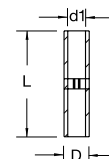


Catalog number	Wire range	L	D	Dimension inch mm	
				d1	T
K18-BS-M	22-16 AWG	0.591	0.130	0.067	0.031
	0.5-1.5 mm ²	15.0	3.3	1.7	0.8
K14-BS-M	16-14 AWG	0.591	0.154	0.091	0.031
	1.5-2.5 mm ²	15.0	3.9	2.3	0.8
K10-BS-M	12-10 AWG	0.591	0.213	0.134	0.039
	4-6 mm ²	15.0	5.4	3.4	1.0

Box quantity: (M) = 1000
UL File #E9809
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Terminal material: Copper tubular



Nylon-insulated wire joints



Nylon-insulated wire joint

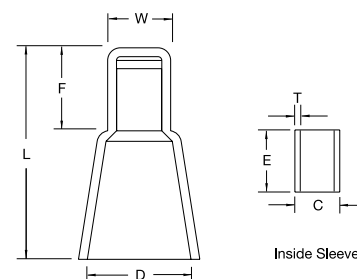


Catalog number	Wire range	W	F	L	D	E	Dimension inch mm	
							T	C
KN18-WJ-M	22-16 AWG	0.209	0.315	0.827	0.386	0.276	0.020	0.091
	1.25 mm ²	5.3	8.0	21.0	9.8	7.0	0.5	2.3
KN14-WJ-M	16-14 AWG	0.236	0.354	0.827	0.394	0.276	0.020	0.122
	2 mm ²	6.0	9.0	21.0	10.0	7.0	0.5	3.1
KN10-WJ-D	12-10 AWG	0.299	0.394	1.004	0.492	0.295	0.028	0.157
	5.5 mm ²	7.6	10.0	25.5	12.5	7.5	0.7	4.0

Box quantity: (W)=250; (D) = 500;
(M) = 1000
UL File #E66716
CSA File #LR4503

See pages in back of catalog for complete tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
300 volts max.
Terminal material: Copper tube



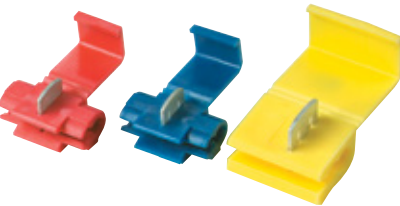
Tool used with non-insulated butt splices



ERG4002 or WT111M

Splices, wire joints and quick splices

Vinyl-insulated quick splices

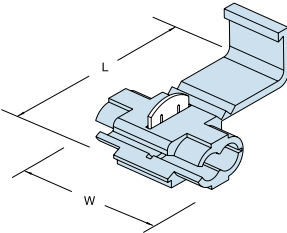


Catalog number	Wire range	Dimension inch mm	
		W	L
KV14-OOQS-D	22-18 AWG	0.787	1.063
	0.5-1.0 mm²	20.0	27.0
KV18-OOQS-D	18-14 AWG	0.787	1.063
	.75-2.5 mm²	20.0	27.0
KV10-OOQS*	12-10 AWG	0.807	1.358
	4-6 mm²	20.5	34.5

Box quantity: (W)=250; (D) = 500;
(M) = 1000
* 200 piece quantity only.

See pages in back of catalog for complete
tool information.
Tool and die selection chart on page 47.

Maximum electrical rating: 105 °C
600 volts max.
Terminal material: Brass



Hand tools

Comfort Crimp® terminal tools



ERG4500



ERG4002

Comfort Crimp terminal tools
ERG4500 and ERG4002

Ergonomic ratchet-style hand tool used for installing insulated Spec-Kon® terminals. Specially designed ergonomic handles distribute the crimping force evenly across the user’s hands. Ratchet design greatly reduces handle forces over conventional hand tools and incorporates the Shure Stake® mechanism, which ensures full compression every time. Color-coded die nests (insulated only) facilitate getting the right terminal in the right nest.

Catalog number	Used with terminal style	Wire range (AWG)
ERG4500	All insulated terminals, splices and disconnects (except flags)	22–10
ERG4002	All non-insulated terminals, splices and disconnects	22–10

Tool gauging requirements

Catalog number	Wire range (AWG)	Gauging (inches)
ERG4500	22–16	0.080–0.088
	16–14	0.091–0.099
	12–10	0.119–0.127
ERG4002	22–16	0.067–0.062
	16–14	0.089–0.084
	12–10	0.115–0.110

Hand tools

Plier-type tools



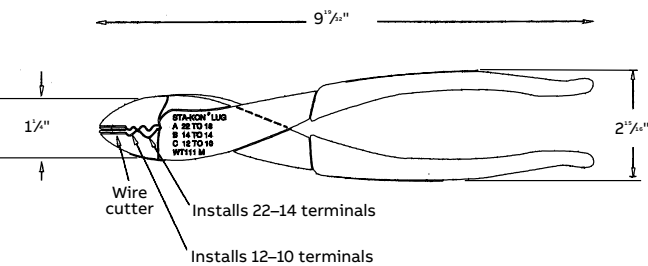
WT111M



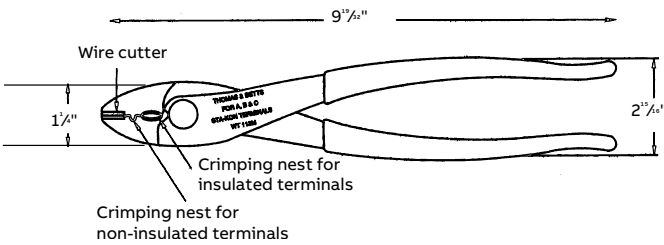
WT112M

Plier-type tools WT111M and WT112M
Economical plier-type hand tool used for installing non-insulated and insulated Spec-Kon terminals. Range of sizes include 22 AWG through 10 AWG. Nose of the tool is equipped with wire cutters for convenience.

Catalog number	Description	Std. pkg	Wt. each
WT111M	Non-insulated terminal plier tool with cutter for 22–10 AWG	1	1
WT112M	Insulated and non-insulated terminal plier tool with cutter for 22–10 AWG	1	1



- WT111M — Installs 22–10 AWG non-insulated Spec-Kon terminals**
- Gauging for 22–14 AWG, 0.027–0.053 in.
 - Gauging for 12–10 AWG, 0.072–0.098 in.



- WT112 M — Installs insulated and non-insulated Spec-Kon terminals, splices, disconnects and wire joints 22–10 AWG**
- Gauging for insulated terminals, 0.092–0.104
 - Gauging for non-insulated terminals, 0.044–0.056

Hand tools

Toggle-type tool



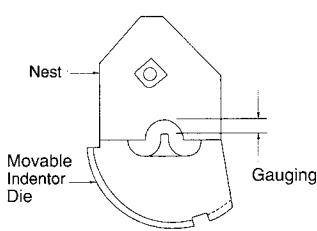
Toggle-type tool TBM6S

Toggle-type hand tool for installing large insulated and non-insulated Spec-Kon® terminals. Terminal size ranges from #8 AWG through #2 AWG. Interchangeable dies are ordered separately. The TBM6S features the Shure Stake® mechanism, which ensures full compression every time.

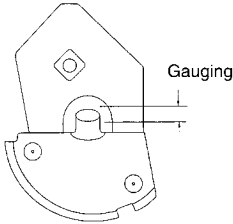
Catalog number	Terminal size for use with Spec-Kon (AWG)	Std. pkg	Wt. each
TBM6S	8-2	1	1

Installing dies

Nest stationary die	Indentor movable die	Terminal size (AWG)	Gauging (inches)
Installing dies for non-insulated Spec-Kon terminals			
11805	11802	8-6	0.157-0.177
11806	11802	4	0.196-0.216
11807	11802	2	0.224-0.244
Installing dies for insulated Spec-Kon terminals			
11822	-	8	0.192-0.212
11823	-	6	0.244-0.264



For use with non-insulated terminals



For use with insulated terminals

Automated tools

Bench-mounted tool for mylar tape



Bench-mounted tool for mylar tape —
KT-2500

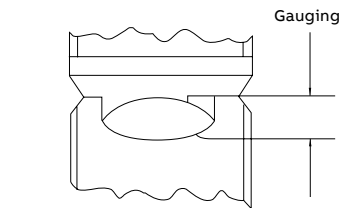
Compact, pneumatically operated bench-mounted tool for crimping insulated and non-insulated Spec-Kon terminals on mylar tape. Dies are color coded to match terminal insulation. Unit comes with fully guarded foot pedal and clear plastic safety guard over the die area for added safety. Unit incorporates the Shure Stake® mechanism, which ensures full compression every time.

- Space requirement: 30" W x 20" H x 20" D
- Weight: 55 lbs.
- Wire range: 22–10 AWG
- Air pressure: 90–125 psi input air supply

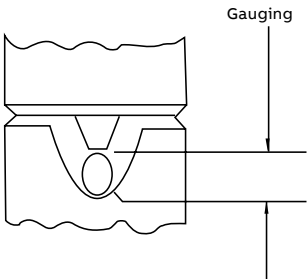
Catalog number	Description	Std. pkg
KT-2500	Bench-mounted crimping tool for mylar tape	1

Installing dies

Catalog number	Terminal style	Wire range (AWG)	Gauging (inches)
Installing dies for insulated Spec-Kon terminals			
KT-18	Insulated terminals and disconnects	22–16	0.105–0.109
KT-14	Insulated terminals and disconnects	16–14	0.115–0.119
KT-10	Insulated terminals and disconnects	12–10	0.134–0.138
Installing dies for non-insulated Spec-Kon terminals			
KTU-18	Non-insulated terminals	22–16	0.072–0.077
KTU-14	Non-insulated terminals	16–14	0.096–0.101
KTU-10	Non-insulated terminals	12–10	0.126–0.131



Insulated terminals



Non-insulated terminals

Application information

Tool and die selection chart

Tool and die selection chart

Spec-Kon terminals		Plier tool	Ergonomic hand tool	KT-2500 Pneumatic tool die		
Nylon terminal (22–10 AWG)	KN or KNF	WT112M	ERG4500	KT-18	KT-14	KT-10
Nylon butt splice		WT112M	ERG4500	–	–	–
Nylon disconnect		WT112M	ERG4500	KT-18	KT-14	KT-10
Nylon terminal (8–6 AWG)		TBM6S	–	KT-8	KT-6	–
Vinyl terminal (22–10 AWG)	KV or KVF	WT112M	ERG4500	KT-18	KT-14	KT-10
Vinyl butt splice		WT112M	ERG4500	KT-18	KT-14	KT-10
Vinyl disconnect		WT112M	ERG4500	KT-18	KT-14	KT-10
Non-insulated terminal (22–10 AWG)	K	WT111M	ERG4002	KTU-18	KTU-14	KTU-10
Non-insulated butt splice		WT111M	ERG4002	–	–	–
Non-insulated terminal (8–6 AWG)		TBM6S	–	–	–	–
Wire joints	KN or KNF	WT112M	–	–	–	–
Flag terminals		–	–	–	–	–

Strip length chart

Strip length chart

Description	Terminal series	Wire strip length (in.)	Description	Terminal series	Wire strip length (in.)
Non-insulated terminals	K18	$\frac{1}{4}$	Vinyl-insulated disconnects	KV18	$\frac{1}{4}$
	K14	$\frac{1}{4}$		KV14	$\frac{1}{4}$
	K10	$\frac{5}{16}$		KV10	$\frac{5}{16}$
	K8	$\frac{3}{8}$	Nylon-insulated disconnects	KN18	$\frac{1}{4}$
	K6	$\frac{7}{16}$		KN14	$\frac{1}{4}$
	K4	$\frac{1}{2}$		KN10	$\frac{5}{16}$
Vinyl-insulated terminals	K2	$\frac{9}{16}$	Vinyl-insulated butt splices	KV18	$\frac{5}{16}$
	KV18	$\frac{1}{4}$		KV14	$\frac{5}{16}$
	KV14	$\frac{1}{4}$		KV10	$\frac{5}{16}$
	KV10	$\frac{5}{16}$	Nylon-insulated butt splices	KN18	$\frac{1}{4}$
	KV8	$\frac{3}{8}$		KN14	$\frac{1}{4}$
Nylon-insulated terminals	KV6	$\frac{7}{16}$		KN10	$\frac{1}{4}$
	KN18	$\frac{1}{4}$	Nylon wire joints	K18	$\frac{9}{32}$
	KN14	$\frac{1}{4}$		K14	$\frac{9}{32}$
	KN10	$\frac{5}{16}$		K10	$\frac{11}{32}$
	KN8	$\frac{3}{8}$			
	KN6	$\frac{7}{16}$			

Application information

Stud size chart and common conductor size chart

Stud size chart

Standard stud size U.S.	Stud diameter inches mm	Terminal hole dia. inches mm	Stud size part no. designation
	#2 M2	0.086 2.18	0.090 2.29
	#4 M2,5	0.112 2.84	0.118 3.00
	#5 M3	0.125 3.18	0.127 3.23
	#6 M3,5	0.138 3.51	0.146 3.71
	#8 M4	0.164 4.17	0.173 4.39
	#10 M5	0.190 4.83	0.198 5.03
	1/4 M6	0.250 6.35	0.270 6.86
	3/16 M8	0.312 7.92	0.330 8.38
	3/8 M10	0.375 9.53	0.385 9.78
	1/2 M12	0.500 12.7	0.520 13.21
	5/8 M16	0.625 15.88	0.650 16.51
	3/4 M18	0.750 19.05	0.810 20.57

Common conductor size chart

Size	No. of strands	Individual strand size	Conductor size	
		Inches mm	Inches mm	Circl. mil area mm
22 AWG	7	0.0096	0.028	640
		0.24	0.74	0.74
20 AWG	10	0.0100	0.038	1020
		0.25	0.97	0.519
18 AWG	16	0.0100	0.048	1620
		0.25	1.22	0.823
16 AWG	26	0.0100	0.060	2580
		0.25	1.52	1.310
14 AWG	7	0.0242	0.073	4110
		0.61	1.85	2.080
12 AWG	7	0.0305	0.092	6530
		0.77	2.34	3.310
10 AWG	7	0.0385	0.116	10,380
		0.98	2.95	5.261
8 AWG	7	0.0486	0.146	16,510
		1.23	3.71	8.367
6 AWG	7	0.0612	0.184	26,240
		1.55	4.67	13.30
4 AWG	7	0.0772	0.232	41,740
		1.96	5.89	21.15
2 AWG	7	0.0974	0.292	66,360
		2.47	7.42	33.62
1 AWG	19	0.0664	0.332	83,690
		1.69	8.43	42.41
1/10 AWG	19	0.0745	0.373	105,600
		1.89	9.47	53.49
2/0 AWG	19	0.0837	0.418	133,100
		2.13	10.62	67.43
3/0 AWG	19	0.0940	0.470	167,800
		2.39	11.94	85.01
4/0 AWG	19	0.1055	0.528	211,600
		2.68	13.41	107.2
250 kcmil	37	0.0822	0.575	250,000
		2.09	14.61	127
300 kcmil	37	0.0900	0.630	300,000
		2.29	16.00	152
350 kcmil	37	0.0973	0.681	350,000
		2.47	17.29	177
400 kcmil	37	0.1040	0.728	400,000
		2.64	18.49	203
500 kcmil	37	0.1162	0.813	500,000
		2.95	20.65	253
600 kcmil	61	0.0992	0.893	600,000
		2.52	22.68	304
750 kcmil	61	0.1109	0.998	750,000
		2.82	25.35	380
800 kcmil	61	0.1145	1.031	800,000
		2.91	26.19	405
1000 kcmil	61	0.1280	1.152	1,000,000
		3.25	29.26	507

Appendix

Part number index

Catalog number	Page	Catalog number	Page	Catalog number	Page
KN18-6R-M	7	K10-516R-M	9	KN10-8F-D	15
KN18-8R-M	7	K10-38R-M	9	KN10-10F-D	15
KN18-10R-M	7	K10-12R-D	9	KN10-14F-D	15
KN18-14R-M	7	KN18-610MS-M	10	KN10-516F-D	15
KN18-516R-M	7	KN14-610MS-M	10	KV18-6F-M	16
KN14-6R-M	7	KN10-610MS-D	10	KV18-8F-M	16
KN14-8R-M	7	KV18-610MS-M	10	KV18-10F-M	16
KN14-10R-M	7	KV14-610MS-M	10	KV18-14F-M	16
KN14-14R-M	7	KV10-610MS-D	10	KV14-6F-M	16
KN14-516R-M	7	K10-610MS-M	11	KV14-8F-M	16
KN14-38R-M	7	KN8-8R-D	12	KV14-10F-M	16
KN10-6R-D	7	KN8-10R-D	12	KV14-14F-M	16
KN10-8R-D	7	KN8-14R-D	12	KV10-6F-D	16
KN10-10R-D	7	KN8-516R-D	12	KV10-8F-D	16
KN10-14R-D	7	KN8-38R-D	12	KV10-10F-D	16
KN10-516R-D	7	KN8-12R-W	12	KV10-14F-D	16
KN10-38R-D	7	KN6-10R-W	12	K18-6F-M	17
KN10-12R-D	7	KN6-14R-W	12	K18-8F-M	17
KV18-6R-M	8	KN6-516R-W	12	K18-10F-M	17
KV18-8R-M	8	KN6-38R-W	12	K14-6F-M	17
KV18-10R-M	8	K8-8R-D	13	K14-8F-M	17
KV18-14R-M	8	K8-10R-D	13	K14-10F-M	17
KV18-516R-M	8	K8-14R-D	13	K10-6F-M	17
KV18-38R-M	8	K8-516R-D	13	K10-8F-M	17
KV14-6R-M	8	K8-38R-D	13	K10-10F-M	17
KV14-8R-M	8	K8-12R-D	13	K10-14F-M	17
KV14-10R-M	8	K6-10R-D	13	KN18-6LF-M	18
KV14-14R-M	8	K6-14R-D	13	KN18-8LF-M	18
KV14-516R-M	8	K6-516R-D	13	KN18-10LF-M	18
KV14-38R-M	8	K6-38R-D	13	KN14-6LF-M	18
KV10-6R-D	8	K6-12R-W	13	KN14-8LF-M	18
KV10-8R-D	8	K4-10R-W*	13	KN14-10LF-M	18
KV10-10R-D	8	K4-14R-W*	13	KN10-6LF-D	18
KV10-14R-D	8	K4-516R-W*	13	KN10-8LF-D	18
KV10-516R-D	8	K4-38R-W*	13	KN10-10LF-D	18
KV10-38R-D	8	K4-12R-CC*	13	KV18-6LF-M	19
KV10-12R-D	8	K2-14R-CC*	13	KV18-8LF-M	19
K18-6R-M	9	K2-516R-CC*	13	KV18-10LF-M	19
K18-8R-M	9	K2-38R-CC*	13	KV14-6LF-M	19
K18-10R-M	9	KV8-8R-D	14	KV14-8LF-M	19
K18-14R-M	9	KV8-14R-D	14	KV14-10LF-M	19
K14-6R-M	9	KV6-14R-W	14	KV10-6LF-D	19
K14-8R-M	9	KV6-12R-W	14	KV10-8LF-D	19
K14-10R-M	9	KN18-6F-M	15	KV10-10LF-D	19
K14-14R-M	9	KN18-8F-M	15	K18-6LF-M	20
K14-516R-M	9	KN18-10F-M	15	K18-8LF-M	20
K14-38R-M	9	KN14-6F-M	15	K18-10LF-M	20
K10-6R-M	9	KN14-8F-M	15	K14-6LF-M	20
K10-8R-M	9	KN14-10F-M	15	K14-8LF-M	20
K10-10R-M	9	KN14-14F-M	15	K14-10LF-M	20
K10-14R-M	9	KN10-6F-D	15	K10-6LF-M	20

Appendix

Part number index

Catalog number	Page	Catalog number	Page	Catalog number	Page
K10-8LF-M	20	KV14-250FD-M	29	KVF10-5FB-D*	37
KN18-8FF-M	21	KV10-110-20FD-D	29	KNF18-4MB-D	38
KN14-10FF-M	21	KV10-110-32FD-D	29	KNF14-4MB-D	38
KN10-6FF-D	21	KV10-187-20FD-D	29	KV18-4MB-M	38
KN10-8FF-D	21	KV10-187-32FD-D	29	KV14-4MB-M	38
KN10-10FF-D	21	KV10-250FD-D	29	KV10-5MB-D	38
KV18-6FF-M	22	KN18-250MD-M	30	KN18-BS-M	40
KV18-10FF-M	22	KN14-250MD-M	30	KN14-BS-M	40
KV14-6FF-M	22	KV18-250MD-M	30	KN10-BS-D	40
KV14-8FF-M	22	KV14-250MD-M	30	KV18-BS-M	40
KV14-10FF-M	22	KN18-250PD-M	31	KV14-BS-M	40
KV10-8FF-D	22	KN14-250PD-M	31	KV10-BS-D	40
KV10-10FF-D	22	KN10-250PD-D	31	K18-BS-M	41
K14-8FF-M	23	KV18-250PD-M	31	K14-BS-M	41
K14-10FF-M	23	KV14-250PD-M	31	K10-BS-M	41
K10-8FF-M	23	KV10-250PD-D	31	KN18-WJ-M	41
K10-10FF-M	23	KNF18-110-020FD-M	32	KN14-WJ-M	41
KN18-10BL-M	24	KNF18-110-32FDM	32	KN10-WJ-D	41
KN18-18BL-M	24	KNF18-187-020FD-M	32	KV14-OOQS-D	42
KN14-10BL-M	24	KNF18-187-032FD-M	32	KV18-OOQS-D	42
KN14-18BL-M	24	KNF18-250FD-M	32	KV10-OOQS*	42
KN10-10BL-D	24	KNF14-187-20FDM	32	ERG4500	43
KV18-10BL-M	25	KNF14-187-32FDM	32	ERG4002	43
KV14-10BL-M	25	KNF10-250FD-M	32	WT111M	44
KV14-18BL-M	25	KNF10-250FD-D	32	WT112M	44
KV10-10BL-D	25	KVF18-110-20FDM	33	TBM6S	45
KN18-12PT-M	26	KVF18-110-32FDM	33	KT-2500	46
KN14-12PT-M	26	KVF18-187-20FDM	33	KT-18	46
KN10-14PT-D	26	KVF18-187-32FDM	33	KT-14	46
KV18-12PT-M	26	KVF18-250FD-M	33	KT-10	46
KV14-12PT-M	26	KVF14-110-20FDM	33	KTU-18	46
KV10-14PT-D	26	KVF14-110-032FD-M	33	KTU-14	46
KN18-187-20FD-M	28	KV14-187-020FD-M	33	KTU-10	46
KN18-187-32FD-M	28	KVF14-187-32FDM	33		
KN18-250FD-M	28	KVF14-250FD-M	33		
KN14-110-20FD-M	28	KVF10-250FD-D	33		
KN14-187-20FD-M	28	KNF18-250MD-D	34		
KN14-187-32FD-M	28	KNF14-250MD-D	34		
KN14-250FD-M	28	KNF10-250MD-D	34		
KN10-110-20FD-D	28	KNF18-187-20FFD-M	35		
KN10-110-32-FD-D	28	KNF18-187-32FFD-M	35		
KN10-187-20FD-D	28	KNF18-250FFD-M	35		
KN10-250FD-D	28	KNF14-187-20FFD-M	35		
KV18-110-020FD-M	29	KNF14-250FFD-M	35		
KV18-110-32-FD-M	29	KNF18-250BFD-D	36		
KV18-187-20FD-M	29	KNF14-250BFD-D	36		
KV18-250FD-M	29	KNF10-250BFD-D	36		
KV14-110-020FD-M	29	KNF18-4FB-M	37		
KV14-110-032FD-M	29	KNF14-4FB-M	37		
KV14-187-020FD-M	29	KVF18-4FB-M	37		
KV14-187-32-FD-M	29	KVF14-4FB-M	37		

Additional information

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB Installation Products Inc. does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB Installation Products Inc.



—
US

ABB Installation Products
Electrification business
860 Ridge Lake Blvd.
Memphis, TN 38120
+1 901-252-5000

tnb.abb.com
electrification.us.abb.com