

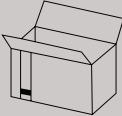
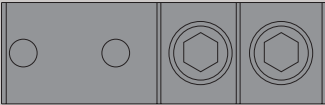


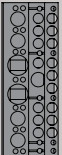
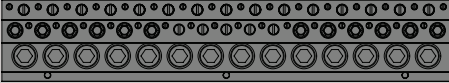
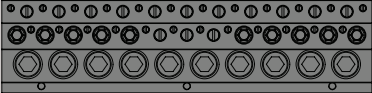
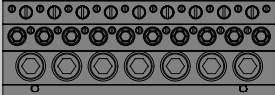
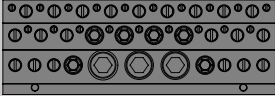
ReliaGear™ neXT Panelboard

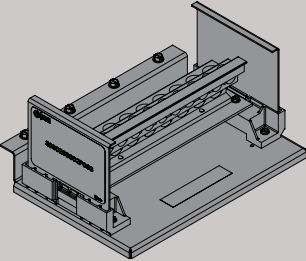
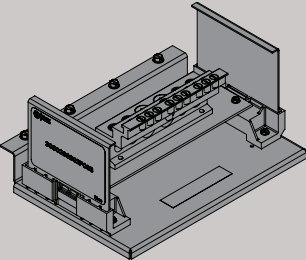
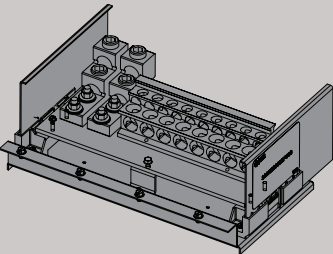
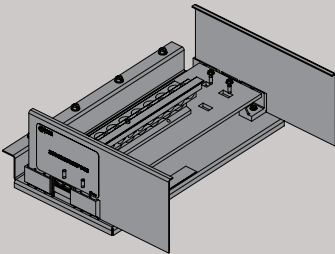
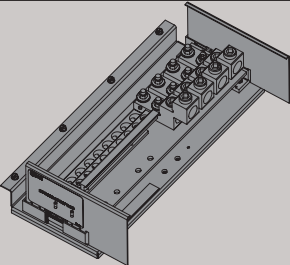
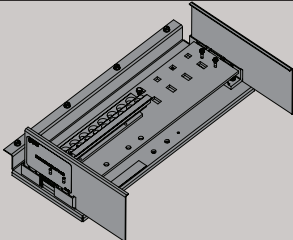
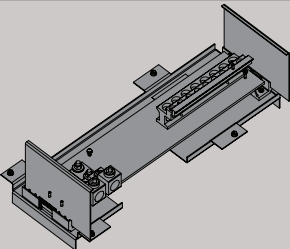
Ground And Neutral Types And Lug Termination Details

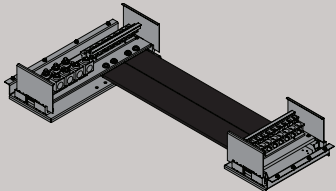
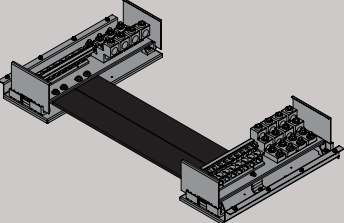
WARNING

Danger of electrical shock or injury. Turn OFF power ahead of the panel board or switchboard before working inside the equipment or removing any component. Equipment is to be installed and maintained by properly trained and qualified personnel only.

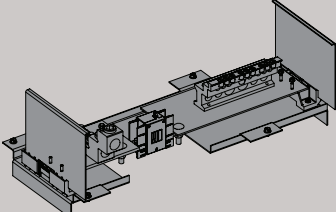
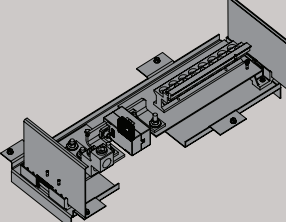
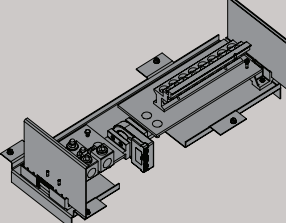


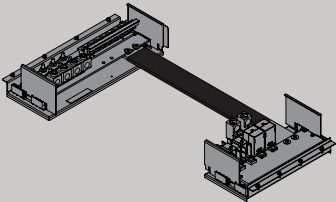
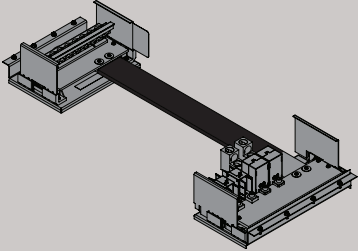
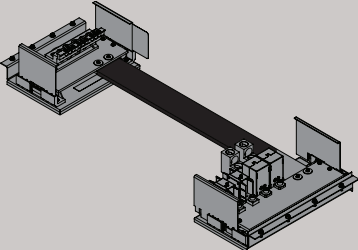
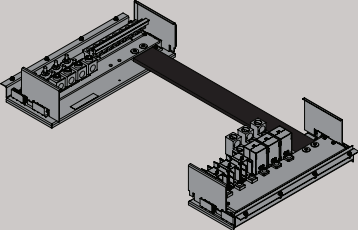
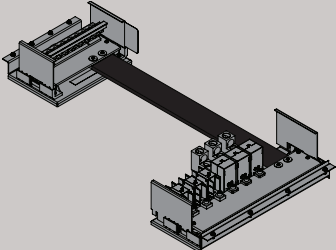
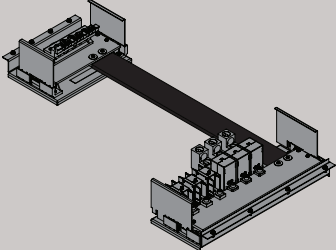
		LUG TYPE
A		CU - 750 MCM MAIN LUG
B		10 WIRE GROUND LUG - AL
F		1200A NEUTRAL LUG - CU
G		400A NEUTRAL LUG - CU
H		DUAL MAIN LUG NEUTRAL LUG - AL
I		Horizontal Main / Main Lug Only Neutral Lug - AL
J		Standard Neutrals AL - 1200A
K		Standard Neutrals AL - 400A

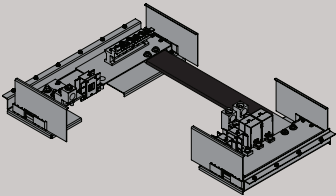
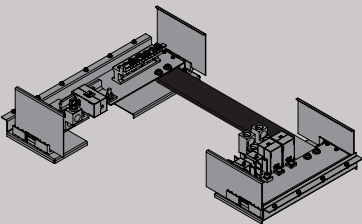
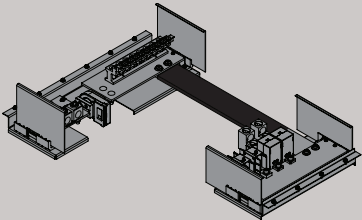
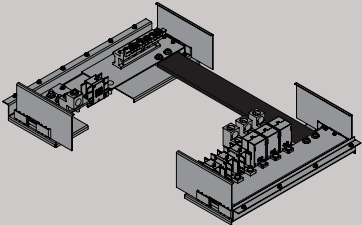
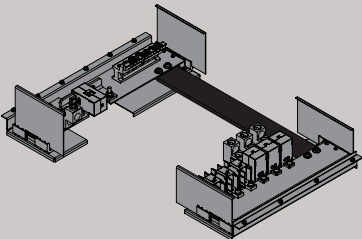
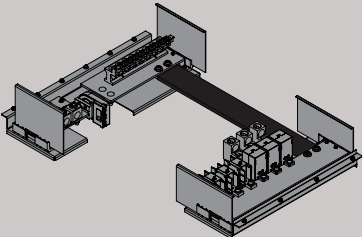
STANDARD NEUTRAL TYPE - CU		MAIN LUG QUANTITY (NO. OF WIRES)	MAIN TYPE
MECHANICAL	COMPRESSION		
	---	0(0)	STANDARD NEUTRAL – 1200A
	---	0(0)	STANDARD NEUTRAL – 400A
		2 (4)	MAIN LUG/HORIZONTAL MAIN BREAKER
		4 (8)	DUAL MAIN LUG
	---	2 (4)	VERTICAL MAIN BREAKER

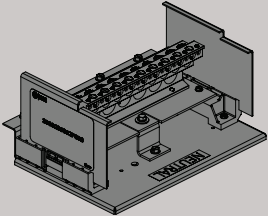
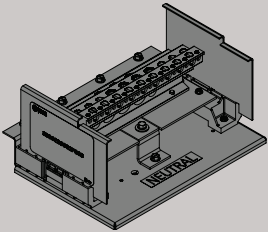
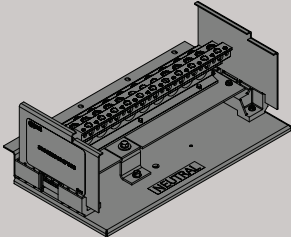
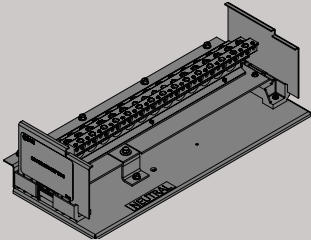
200% NEUTRAL TYPE - CU		MAIN LUG QUANTITY (NO. OF WIRES)	MAIN TYPE
MECHANICAL	COMPRESSION		
	---	4 (8)	MAIN LUG/HORIZONTAL MAIN BREAKER
	---	8 (16)	DUAL MAIN LUG

NOTE: Compression Lug catalog numbers available in Appendix A .

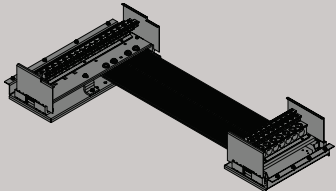
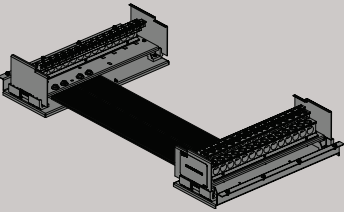
GROUND FAULT MAIN NEUTRAL TYPE - CU		MAIN LUG QUANTITY (NO. OF WIRES)	MAIN TYPE
MECHANICAL	COMPRESSION		
	---	1 (2)	XT4 HORIZONTAL MAIN BREAKER
	---	1 (2)	XT5 VERTICAL MAIN BREAKER
	---	2 (4)	XT7 VERTICAL MAIN BREAKER

GROUND FAULT ON FEEDERS WITH STANDARD NEUTRALS - CU	MAIN LUG QUANTITY (NO. OF WIRES)	DESCRIPTION
MECHANICAL		
	4 (8)	DUAL MAIN LUG – 15"
	0	VERTICAL MAIN/HORIZONTAL MAIN/MAIN LUG NEUTRAL – 15"
	0	VERTICAL MAIN/HORIZONTAL MAIN/MAIN LUG NEUTRAL – 15"
	4 (8)	DUAL MAIN LUG – 21"
	0	VERTICAL MAIN/HORIZONTAL MAIN/MAIN LUG NEUTRAL – 21"
	0	VERTICAL MAIN/HORIZONTAL MAIN/MAIN LUG NEUTRAL – 21"

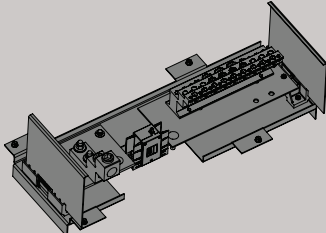
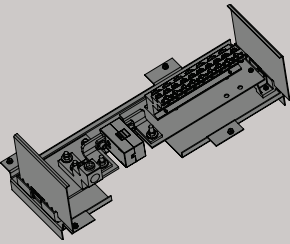
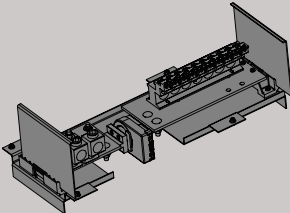
GROUND FAULT ON FEEDER WITH GROUND FAULT MAIN - CU	MAIN LUG QUANTITY (NO. OF WIRES)	DESCRIPTION
MECHANICAL		
	1 (2)	XT4 MAIN BREAKER WITH GROUND FAULT – 15”
	1 (2)	XT5 MAIN BREAKER WITH GROUND FAULT – 15”
	2 (4)	XT7 MAIN BREAKER WITH GROUND FAULT – 15”
	1 (2)	XT4 MAIN BREAKER WITH GROUND FAULT – 21”
	1 (2)	XT5 MAIN BREAKER WITH GROUND FAULT – 21”
	2 (4)	XT7 MAIN BREAKER WITH GROUND FAULT – 21”

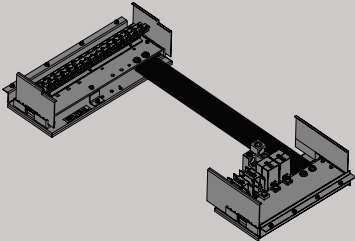
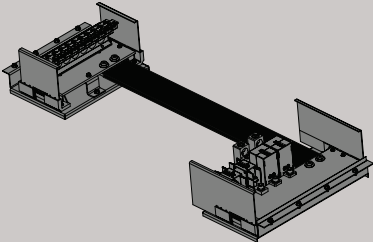
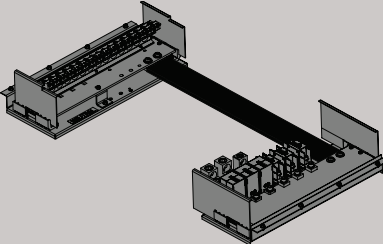
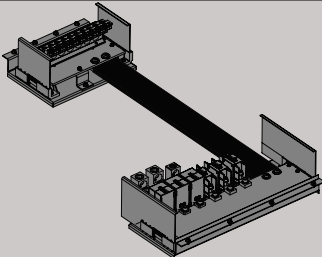
STANDARD NEUTRAL TYPE - AL	MAIN LUG QUANTITY (NO. OF WIRES)	DESCRIPTION
MECHANICAL		
	-	STANDARD NEUTRALS AL - 1200A
	-	STANDARD NEUTRALS AL - 400A
	-	HORIZONTAL MAIN / MAIN LUG ONLY NEUTRALS - AL
	-	DUAL MAIN LUG NEUTRALS - AL

NOTE: Main incoming cables to be terminated in the extrusion.

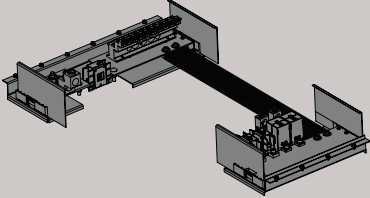
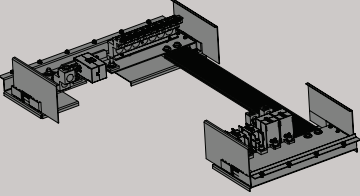
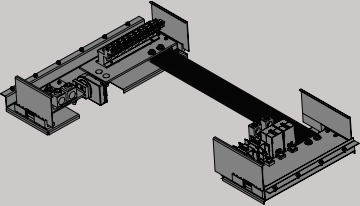
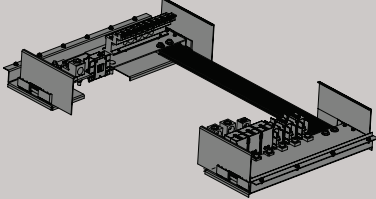
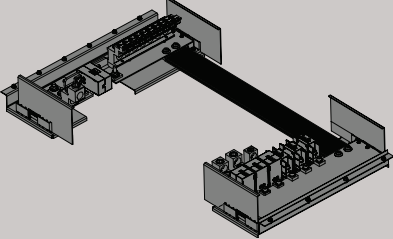
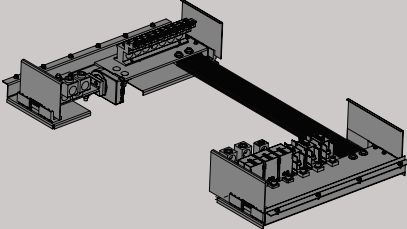
200% NEUTRAL TYPE - AL		MAIN LUG QUANTITY (NO. OF WIRES)	MAIN TYPE
MECHANICAL	COMPRESSION		
	---	-	MAIN LUG/HORIZONTAL MAIN BREAKER
	---	-	DUAL MAIN LUG

NOTE: Main incoming cables to be terminated in the extrusion.

GROUND FAULT MAIN NEUTRAL TYPE - AL		MAIN LUG QUANTITY (NO. OF WIRES)	MAIN TYPE
MECHANICAL	COMPRESSION		
	---	1 (2)	XT4 HORIZONTAL MAIN BREAKER
	---	1 (2)	XT5 VERTICAL MAIN BREAKER
	---	2 (4)	XT7 VERTICAL MAIN BREAKER

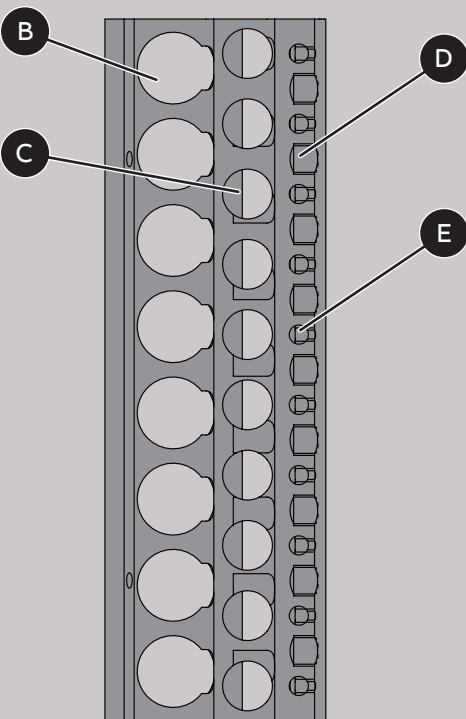
GROUND FAULT ON FEEDERS WITH STANDARD NEUTRALS - AL	MAIN LUG QUANTITY (NO. OF WIRES)	DESCRIPTION
MECHANICAL		
	-	DUAL MAIN LUG – 15”
	0	VERTICAL MAIN/HORIZONTAL MAIN/MAIN LUG NEUTRAL – 15”
	-	DUAL MAIN LUG – 21”
	0	VERTICAL MAIN/HORIZONTAL MAIN/MAIN LUG NEUTRAL – 21”

NOTE: Main incoming cables to be terminated in the extrusion.

GROUND FAULT ON FEEDER WITH GROUND FAULT MAIN - AL	MAIN LUG QUANTITY (NO. OF WIRES)	DESCRIPTION
MECHANICAL		
	1 (2)	XT4 MAIN BREAKER WITH GROUND FAULT – 15”
	1 (2)	XT5 MAIN BREAKER WITH GROUND FAULT – 15”
	2 (4)	XT7 MAIN BREAKER WITH GROUND FAULT – 15”
	1 (2)	XT4 MAIN BREAKER WITH GROUND FAULT – 21”
	1 (2)	XT5 MAIN BREAKER WITH GROUND FAULT – 21”
	2 (4)	XT7 MAIN BREAKER WITH GROUND FAULT – 21”

5

1200A Neutral Lug and 750MCM Main Lug Termination Details - CU

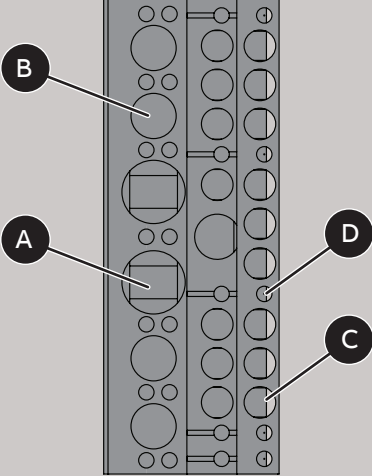


WIRE CONNECTOR	WIRE RANGE	WIRE QTY	RECOMMENDED TIGHTENING TORQUE
A	3/0 – 750 MCM CU-AL	2-16	1/2" INTERNAL HEX – 500 LB-IN
B	No. 2 – 600 MCM CU ONLY	8	3/8" INTERNAL HEX – 375 LB-IN
C	No. 6 – 250 MCM CU ONLY	10	5/16" INTERNAL HEX – 275 LB-IN
D	No. 14 – 2/0 CU ONLY	9	7/16" STRAIGHT SLOT – 50 LB-IN
E	No. 8 – No. 4 CU ONLY	10	1/4" STRAIGHT SLOT – 45 LB-IN
	No. 14 – No. 10 CU ONLY		1/4" STRAIGHT SLOT – 25 LB-IN

NOTE:
1. CU Lug to be used for CU wire termination only.
2. Applies to NL06, NL08, NL10, NL12 catalog numbers.

6

400A Neutral Termination Details - CU



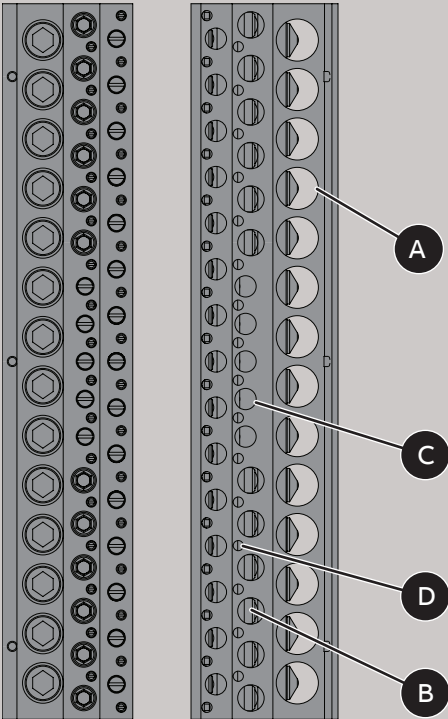
CONNECTOR	WIRE RANGE	WIRE QTY	RECOMMENDED TIGHTENING TORQUE
A	No. 2–600 MCM CU ONLY	2	3/8" INTERNAL HEX - 375 LB-IN
B	No. 6–250 MCM CU ONLY	5	5/16" INTERNAL HEX - 275 LB-IN
C	No. 14–2/0 CU ONLY	16	7/16" STRAIGHT SLOT - 50 LB-IN
D	No. 8–No. 4 CU ONLY	24	1/4" STRAIGHT SLOT - 45 LB-IN
	No. 14–No. 10 CU ONLY		1/4" STRAIGHT SLOT - 25 LB-IN

NOTE:
1. CU Lug to be used for CU wire termination only.
2. Applies to NL02, NL04 catalog numbers.
3. 10 Wire Lugs are AL but can accept AL/CU wires.

CONNECTOR	WIRE RANGE FOR 10 WIRE LUG	WIRE QTY	RECOMMENDED TIGHTENING TORQUE		
E	NO. 6-2/0 AWG CU - AL	10	SLOTTED SCREW (LB-IN)		
			AWG SIZE	MIN	MAX
			6 - 4	41	45
			3 - 2/0	45	50

7

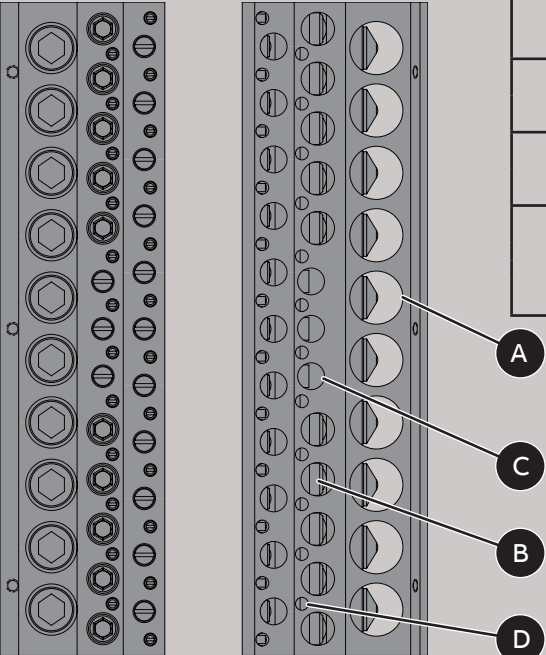
Dual Main Lug Neutral Lug - AL Termination Details



WIRE CONNECTOR	WIRE RANGE	WIRE QTY	RECOMMENDED TIGHTENING TORQUE
A	3/0 – 750 MCM Cu - Al	14	1/2" INTERNAL HEX – 500 LB-IN
B	No 6 – 250 MCM CU	12	5/16" INTERNAL HEX – 275 LB-IN
	No 6 – 300 MCM AL		
C	No.14 – 2/0 CU	20	7/16" STRAIGHT SLOT – 50 LB-IN
	No. 12 - 2/0 AL		
D	No.8 – No.4 CU - AL	32	1/4" STRAIGHT SLOT – 45 LB-IN
	No.12 – No.10 AL		1/4" STRAIGHT SLOT – 25 LB-IN
	No.14 – No.10 CU		

8

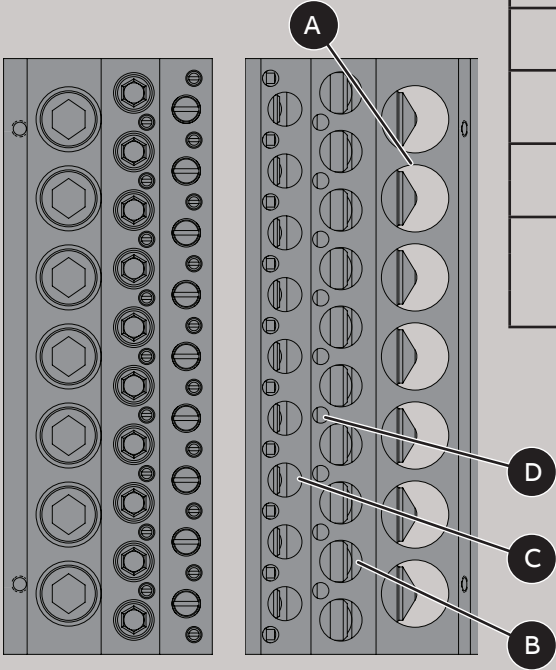
Horizontal Main / Main Lug Only Neutral Lug - AL Termination Details



WIRE CONNECTOR	WIRE RANGE	WIRE QTY	RECOMMENDED TIGHTENING TORQUE
A	3/0 – 750 MCM CU - AL	10	1/2" INTERNAL HEX – 500 LB-IN
B	No 6 – 250 MCM CU	10	5/16" INTERNAL HEX – 275 LB-IN
	No 6 – 300 MCM AL		
C	No.14 – 2/0 CU	14	7/16" STRAIGHT SLOT – 50 LB-IN
	No. 12 - 2/0 AL		
D	No.8 – No.4 CU - AL	24	1/4" STRAIGHT SLOT – 45 LB-IN
	No.12 – No.10 AL		1/4" STRAIGHT SLOT – 25 LB-IN
	No.14 – No.10 CU		

9

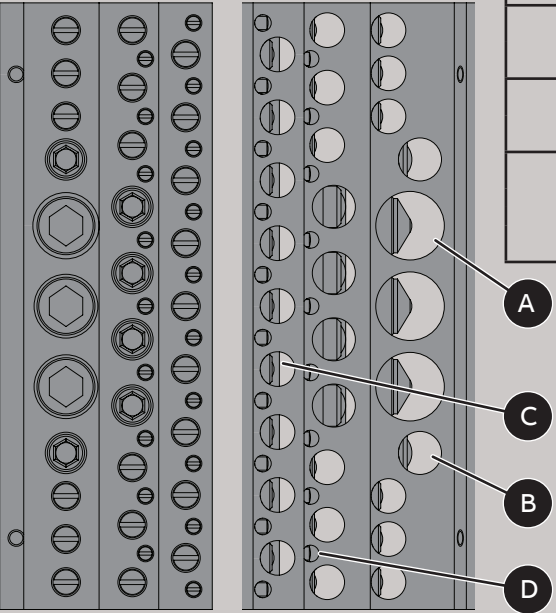
Standard Neutrals AL - 1200A Termination Details



WIRE CONNECTOR	WIRE RANGE	WIRE QTY	RECOMMENDED TIGHTENING TORQUE
A	3/0 – 750 MCM CU - AL	7	1/2" INTERNAL HEX – 500 LB-IN
B	No 6 – 250 MCM CU	10	5/16" INTERNAL HEX – 275 LB-IN
	No 6 – 300 MCM AL		
C	No.14 – 2/0 CU	9	7/16" STRAIGHT SLOT – 50 LB-IN
	No. 12 - 2/0 AL		
D	No.8 – No.4 CU - AL	19	1/4" STRAIGHT SLOT – 45 LB-IN
	No.12 – No.10 AL		1/4" STRAIGHT SLOT – 25 LB-IN
	No.14 – No.10 CU		

10

Standard Neutrals AL - 400A Termination Details



WIRE CONNECTOR	WIRE RANGE	WIRE QTY	RECOMMENDED TIGHTENING TORQUE
A	3/0 – 750 MCM CU - AL	3	1/2" INTERNAL HEX – 500 LB-IN
B	No 6 – 250 MCM CU	6	5/16" INTERNAL HEX – 275 LB-IN
	No 6 – 300 MCM AL		
C	No.14 – 2/0 CU	21	7/16" STRAIGHT SLOT – 50 LB-IN
	No. 12 - 2/0 AL		
D	No.8 – No.4 CU - AL	19	1/4" STRAIGHT SLOT – 45 LB-IN
	No.12 – No.10 AL		1/4" STRAIGHT SLOT – 25 LB-IN
	No.14 – No.10 CU		

Appendix A

SR.NO	DESCRIPTION	WIRE QTY	USCON CATALOG NUMBER
1	NEXT LUGS NEUTRALS 1/0	2	LGN010
2	NEXT LUGS NEUTRALS 2/0	2	LGN020
3	NEXT LUGS NEUTRALS 3/0	2	LGN030
4	NEXT LUGS NEUTRALS 4/0	2	LGN040
5	NEXT LUGS NEUTRALS 250 MCM	2	LGN250
6	NEXT LUGS NEUTRALS 300 MCM	2	LGN300
7	NEXT LUGS NEUTRALS 350 MCM	2	LGN350
8	NEXT LUGS NEUTRALS 400 MCM	2	LGN400
9	NEXT LUGS NEUTRALS 500 MCM	2	LGN500
10	NEXT LUGS NEUTRALS 600 MCM	2	LGN600
11	NEXT LUGS NEUTRALS 750 MCM	2	LGN750

Disclaimer : These instructions do not cover all details or variations in equipment nor do they provide for every possible contingency that may be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise that are not covered sufficiently for the purchaser's purposes, the matter should be referred to the ABB Company.

ABB Inc.
305 Gregson Drive
Cary, NC 27511

abb.com

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 AG 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 AG. Copy-right© 2024 ABB
All rights reserved