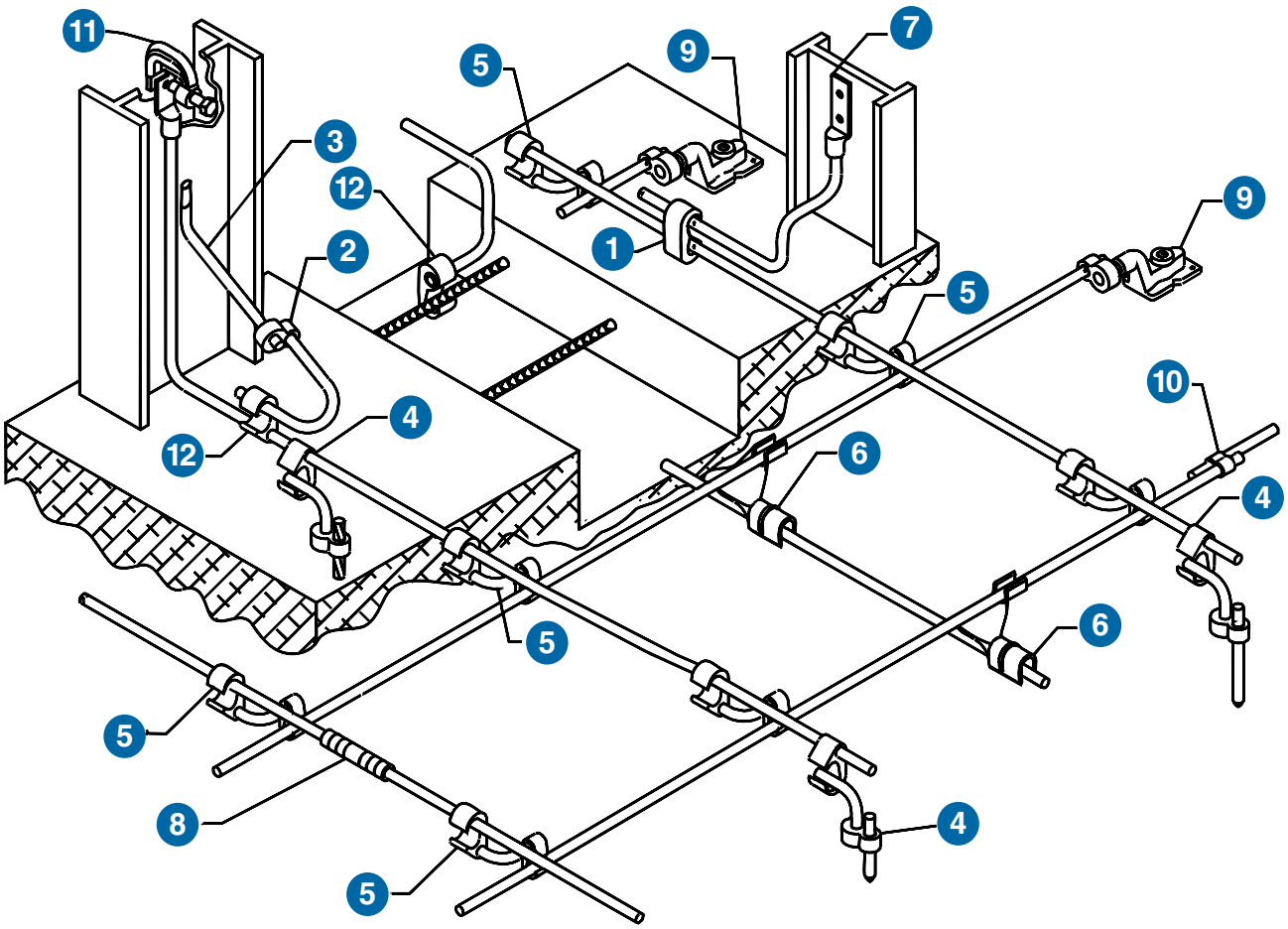
E-Z-Ground® Grounding Connectors



Thomas & Betts offers its complete line of grid-ground compression connectors. Our E-Z-Ground® connectors are designed for direct burial and offer a safe, efficient alternative to exothermic welding products. Grid-ground installations do not require explosive charges, and can be installed in various climate conditions. These range-taking products will reduce the number of connectors and dies needed for your installation.

Thomas & Betts E-Z-Ground® products meet all applicable standards (IEEE 837, UL467, CSA 22.2). Connectors are prefilled with oxide inhibitor and sealed.

1. C-Taps
2. Figure 8 Connector
3. Steel Grounding Stud TBG Series
4. Figure 6–8 Connectors
5. Figure 6–6 Connectors
6. GG Connectors
7. Lug
8. Splice/Two-Way Connector
9. Grounding Plate
10. Pigtail Connectors
11. I Beam Clamp
12. Figure 6 Connector

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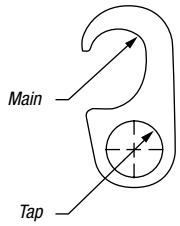
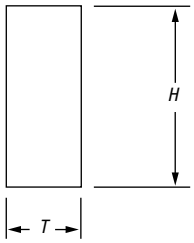
Figure 6 Compression Ground Tap Connector





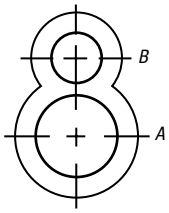
DB

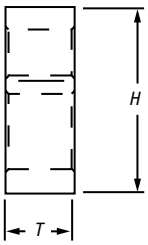
MEETS IEEE 837 REQUIREMENTS

CAT. NO.	APPLICATION MAIN	APPLICATION TAP	CABLE TO REBAR APPLICATION A GROUND ROD	CABLE TO REBAR APPLICATION B CABLE RANGE	DIMENSIONS (IN.) T	DIMENSIONS (IN.) H	DIES FOR TBM 14M, 13100A OR TBM15I
54855	1/0 Str.–.250 kcmil or ½"–⅝" Rod	#4 Sol.–#2 Str.	#3 Rebar ⅜ thru ½ #4 Rebar	#4 Sol.–#2 Str.	¾"	1 15/16"	15G86R
54860	1/0 Str.–.250 kcmil or ½"–⅝" Rod	1/0 Str.–2/0 Str.	#3 Rebar ⅜ thru ½ #4 Rebar	1/0 Str.–2/0 Str.	¾"	2 3/16"	15G86R
54865-CK	1/0 Str.–250 kcmil or ½"–⅝" Rod	3/0 Str.–250 kcmil	#3 Rebar ⅜ thru ½ #4 Rebar	3/0 Str.–.250 kcmil	¾"	2 3/16"	15G86R
54875	#6 Sol.–#2 Str.	#6 Sol.–#2 Str.	—	—	¾"	2 9/16"	15501A
54885	250 kcmil–500 kcmil or ⅝"–¾" Rod	#4 Sol.–#2 Str.	#5 Rebar ⅝ thru ¾ #6 Rebar	#4 Sol.–#2 Str.	¾"	1 15/16"	15G126R
54890	250 kcmil–500 kcmil or ⅝"–¾" Rod	1/0 Str.–2/0 Str.	#5 Rebar ⅝ thru ¾ #6 Rebar	1/0 Str.–2/0 Str.	¾"	2 1/8"	15G126R
54895	250 kcmil–500 kcmil or ⅝"–¾" Rod	3/0 Str.–250 kcmil	#5 Rebar ⅝ thru ¾ #6 Rebar	3/0 Str.–250 kcmil	¾"	2 3/16"	15G126R
54900	250 kcmil–500 kcmil or ⅝"–¾" Rod	350 kcmil–500 kcmil	#5 Rebar ⅝ thru ¾ #6 Rebar	350 kcmil–500 kcmil	1 3/8"	2 7/16"	15G121R

** Tin-plated version available of galvanized ground rods. Add suffix -TP.*

Figure 8 Compression Ground Rod Tap Connector





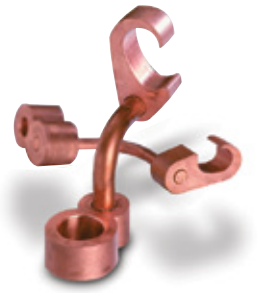
DB

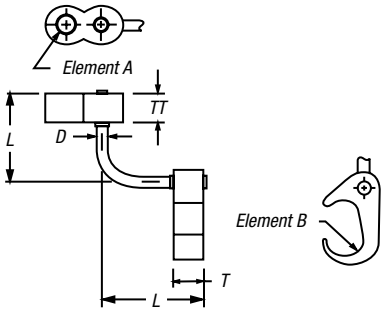
MEETS IEEE 837 REQUIREMENTS

CAT. NO.	A GROUND ROD	B CABLE RANGE	DIMENSIONS (IN.) T	DIMENSIONS (IN.) H	DIES FOR TBM14M, 13100A OR TBM15I
GR12-202	½"	#2 AWG–2/0 AWG	⅞"	1 15/16"	15G121R
GR58-202	⅝"	#2 AWG–2/0 AWG	⅞"	1 31/32"	15G121R
GR34-202	¾"	#2 AWG–2/0 AWG	⅞"	2 3/16"	15G121R
GR1-202	1"	#2 AWG–2/0 AWG	⅞"	2 9/16"	15G121R
GR12-40250	½"	3/0 AWG–250 kcmil	⅞"	1 15/16"	15G121R
GR58-40250	⅝"	3/0 AWG–250 kcmil	⅞"	2 1/8"	15G121R
GR34-40250	¾"	3/0 AWG–250 kcmil	⅞"	2 3/16"	15G121R
GR1-40250	1"	3/0 AWG–250 kcmil	⅞"	2 7/16"	15G121R
GR58-300500	⅝"	300–500 kcmil	⅞"	2 1/8"	15G121R
GR34-300500	¾"	300–500 kcmil	⅞"	2 7/16"	15G121R
GR1-300500	1"	300–500 kcmil	⅞"	2 11/16"	15G121R

Tooling: ***pages F-80–F-100****.*
Die Selector Chart: ***pages F-101–F-104****.*

Figure 6 to 8 Compression Ground Rod to Grid Connectors





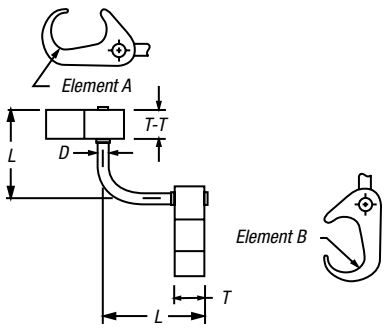
DB

MEETS IEEE 837 REQUIREMENTS

CAT. NO.	A GROUND ROD	B CABLE RANGE	DIMENSIONS (IN.) D	DIMENSIONS (IN.) L	DIES FOR TBM14M, 13100A OR TBM15I ELEMENT A	DIES FOR TBM14M, 13100A OR TBM15I ELEMENT B
54855LR12*	½"	#2 AWG–250 kcmil	5⁄16"	2½"	15G86R	15G121R
54885LR12*	½"	250 kcmil–500 kcmil	5⁄16"	2½"	15G126R	15G121R
54865LR58*	5⁄8"	#2 AWG–250 kcmil	5⁄16"	2½"	15G86R	15G121R
54895LR58*	5⁄8"	250 kcmil–500 kcmil	5⁄16"	2½"	15G126R	15G121R
54875LR34*	¾"	#2 AWG–250 kcmil	½"	2⅝"	15G86R	15G121R
54900LR34*	¾"	250 kcmil–500 kcmil	½"	2⅝"	15G121R	15G121R
54910LR100	1"	#2 AWG–250 kcmil	½"	2⅝"	15G86R	15G121R
54920LR100	1"	250 kcmil–500 kcmil	½"	2⅝"	15G126R	15G121R

** Tin-plated version available for galvanized ground rods. Add suffix -TP.*

Figure 6 to 6 Compression Ground Grid Connectors



DB

MEETS IEEE 837 REQUIREMENTS

CAT. NO.	CABLE TO CABLE ELEMENT A	CABLE TO CABLE ELEMENT B	ELEMENT B TO GROUND ROD	ELEMENT B TO REBAR	DIMENSIONS (IN.) D	DIMENSIONS (IN.) T	DIMENSIONS (IN.) T-T	DIE SELECTION FOR TBM14M, 13100A OR TBM15I A	DIE SELECTION FOR TBM14M, 13100A OR TBM15I B
54855L	#6 Sol.–#2 Str.	#6 Sol.–#2 Str.	—	—	⅞"	¾"	¾"	15501A	15501A
54865L	#1 Str.–250 kcmil	#6 Sol.–#2 Str.	½"–⅝"	⅜–½" #3–#4 Rebar	⅞"	¾"	¾"	15G86R	15501A
54875L	#2 Str.–250 kcmil	#2 Str.–250 kcmil	½"–⅝"	⅜–½" #3–#4 Rebar	⅞"	¾"	¾"	15G86R	15G86R
54885L	250 kcmil–500 kcmil	#6 Sol.–#2 Str.	⅝"–½"	⅝–¾" #5–#6 Rebar	⅞"	¾"	¾"	15G126R	15501A
54895L	250 kcmil–500 kcmil	#2 Str.–250 kcmil	⅝"–½"	⅝–¾" #5–#6 Rebar	⅞"	¾"	¾"	15G126R	15G86R
54900L	250 kcmil–500 kcmil	250 kcmil–500 kcmil	⅝"–½"	⅝–¾" #5–#6 Rebar	⅞"	1⅛"	1⅛"	15G121R15	G121R

Tooling: ***pp. F-80–F-100****.*

Die Selector Chart: ***pp. F-101–F-104****.*

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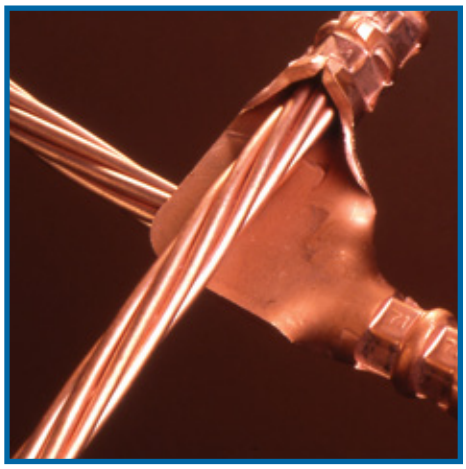
E-Z-Ground® Grounding Connectors

One-piece construction for cable-to-cable, cable-to-rod, "T" and "X" connections.



Cable-to-Cable or Cable-to-Rod Connectors

- Suitable for direct burial or in concrete
- Replaces exothermic welds
- Made from high-conductivity wrought copper
- Conforms to IEEE 837 standard
- UL467

DB

CAT. NO.	CABLE TO CABLE RANGE			DIE CODE	GROUND ROD	ROD TO CABLE		
	MAIN	DIE CODE	BRANCH			DIE CODE	CABLE	DIE CODE
GG21-21	#2 or #1	45	#2 or #1	45	—	—	—	—
GG10-10	1/0	54	1/0	54	—	—	—	—
GG2030-21	2/0 or 3/0	60	#2	45	—	—	—	—
GG2030-10	2/0 or 3/0	60	1/0	54	—	—	—	—
GG2030-2030	2/0 or 3/0	60	2/0 or 3/0	50	—	—	—	—
GG40250-21	4/0 or 250	71	#2 #1	45 50	½" ⅝"	71 80H	#2 or #1 #2 or #1	45 50
GG40250-10	4/0 or 250	71	1/0	54	½" ⅝"	71 80H	1/0	65
GG40250-2030	4/0 or 250	71	2/0 or 3/0	60	½" ⅝"	71 80H	2/0 or 3/0 2/0 or 3/0	60 60
GG40250-40250	4/0 or 250	71	4/0 or 250	71	½" ⅝"	71 80H	4/0 or 250 4/0 or 250	71 71
GG350-350	350 kcmil	80H	350	80H	—	—	—	—
GG500-40250	500 kcmil	87	4/0 or 250	71	⅝" ¾"	80H 87H	500 500	87 87
GG500-500	500 kcmil	87	500	87	¾"	87	500	87
GG500-350	500 kcmil	87H	350	80	⅝" ¾"	87H	350	80H
GG500-2030	500 kcmil	87H	2/0 or 3/0	60	⅝" ¾"	87H	2/0 or 3/0	60

Tooling: ***pp. F-80–F-100****.*

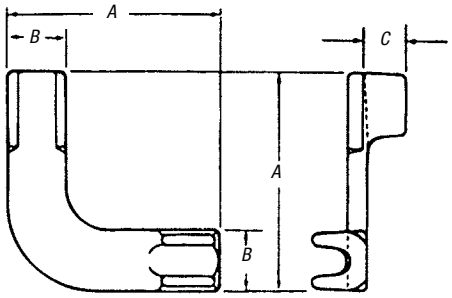
Die Selector Chart: ***p. F-101–F-104****.*

E-Z-Ground® Grounding Connectors

For copper cable-to-cable ground-grid connections.

Type GRD — Cable-to-Cable Connector

- Cast of high-conductivity bronze alloy
- Suitable for direct burial



DB UL

CAT. NO.	CONDUCTOR SIZE MAIN MAX.	MAIN MIN.	MAIN MAX. (MM²)	MAIN MIN. (MM²)	TAP MAX.	TAP MIN.	TAP MAX. (MM²)	TAP MIN. (MM²)	GROUND ROD	INSTALLATION INFORMATION HYD. TOOL	DIE	NO. CRIMPS	DIMENSIONS (IN.) A	B	C
GRD2	1	2	42.4	33.6	1	2	42.4	33.6	—	TBM14M	B09CH	1	2½	11/16	11/16
GRD20	2/0	1/0	67.4	53	2/0	1/0	67.4	53	—	TBM14M	B10CH	1	3	13/16	7/8
GRD420	250 kcmil	4/0	126.6	107	2/0	1/0	67.4	53	5/8	TBM14M	B12CH	2	3⅝	11/16	13/16
GRD40	250 kcmil	4/0	126.6	107	250 kcmil	4/0	126.6	107	5/8	TBM14M	B12CH	2	3⅝	11/16	13/16

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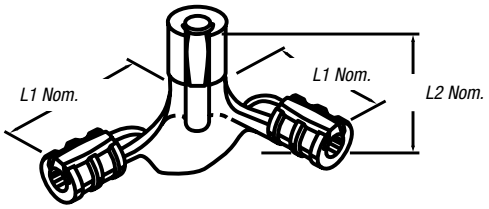
E-Z-Ground® Grounding Connectors

For connecting perpendicular runs of stranded copper cable to ground rod.

Two Cables-to-Ground Rod Connector — Heavy-Duty Cast Copper††



DB

CAT. NO.	CABLE SIZE MAIN	CABLE SIZE TAP	GROUND ROD DIA.	TBM15I DIE FOR CABLE CODE	OVERALL DIM. (IN.) L1	OVERALL DIM. (IN.) L2	TBM15I DIE FOR GROUND ROD CODE
53065-58GR	250 or 4/0	250 or 4/0	⅝" & ½"	87H	4 15/16	3¼	87H
53065-34GR	250 or 4/0	250 or 4/0	¾"	87H	4 15/16	3¾	106H

Installs with Hydraulic Tools with hex crimp dies.
†† Does not meet IEEE 837.

Copperweld* Conductors & Rebar — for Use with Cast Copper Connectors

CABLE SIZE	REINFORCING ROD SIZE	COPPERWELD CONDUCTOR SIZE
#2, #1 AWG	—	(3) #8 or (3) #6
1/0, 2/0 AWG	#3	⅜ — (7) #8 or 7/16 — (7) #7
4/0 AWG, 250 kcmil	#4	7/16 — (19) #9 or (7) #5
300–350 kcmil	#5	21/32 — (19) #8 or ⅝ — (7) #4
500 kcmil	#6	13/16 — (19) #6

** Reg. Trademark Copperweld Corporation.*

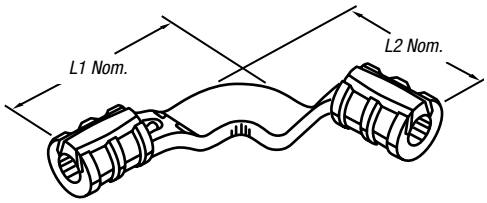
UL Listed for use with cast copper connectors.

Tooling: ***pp. F-80–F-100****.*

Die Selector Chart: pp. ***F-101–F-104****.*

Grounding Grid Connectors — Heavy-Duty Cast Copper††

53055



53065

DB

CAT. NO.	ROD TO CABLE RANGE		CABLE TO CABLE RANGE		ROD TO CABLE INSTALLING DIE CODE FOR TBM14M, 13100A OR TBM15I		OVERALL DIMENSION (IN.)	
	ROD SIZE (IN.)	CABLE RANGE	MAIN	BRANCH	ROD BARREL	CABLE BARREL	L1	L2
53055	—	—	1/0–2/0 AWG	1/0–2/0 AWG	—	66	3 7/8	3 7/8
53059†	1/2–5/8	#2–#1 AWG	4/0 AWG–250 kcmil	#2–#1 AWG	87H	54H	4 5/32	4 9/16
53060†	1/2–5/8	1/0–2/0 AWG	4/0 AWG–250 kcmil	1/0–2/0 AWG	87H	87H	4 7/16	4 5/16
53065†	1/2–5/8	4/0 AWG–250 kcmil	4/0 AWG–250 kcmil	4/0 AWG–250 kcmil	87H	87H	4 1/16	4 5/16
53069†	3/4	1/0–2/0 AWG	300–350 kcmil	1/0–2/0 AWG	106H	66	4 19/32	4 19/32
53071†	3/4	4/0 AWG–250 kcmil	300–350 kcmil	4/0 AWG–250 kcmil	106H	106H	5 1/4	4 25/32
53073†	3/4	1/0–2/0 AWG	500 kcmil	1/0–2/0 AWG	125H*	66	4 13/16	4 7/8
53075†	1	4/0 AWG–250 kcmil	500 kcmil	4/0 AWG–250 kcmil	125H*	87H	6 9/16	5
53080†	1	500 kcmil	500 kcmil	500 kcmil	125H*	125H*	5 3/16	5 3/16

Cat. No. 15500 adapter is required for all 15500 Series dies, not for 15600 Series.

† Ground rods 4/0–250 wire barrels suitable for 1/2" and 5/8" rod.

500 kcmil wire barrels suitable for 1" rods.

300–500 kcmil wire barrels suitable for 5/8" rods.

Hydraulic tools only.

†† Does not meet IEEE 837.

** 125H die for 15-ton tool only.*

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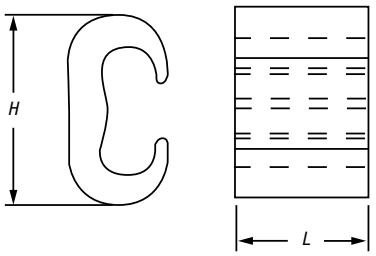
E-Z-Ground® Grounding Connectors

C-Taps



DB

MEETS **IEEE** 837 REQUIREMENTS

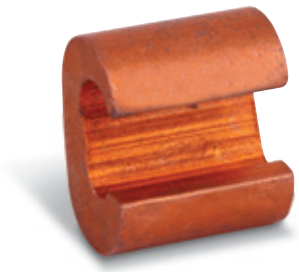
CAT. NO.	MAIN	TAP	DIMENSION (IN.) H	DIMENSION (IN.) L	DIES FOR TBM14M 13100A OR TBM15I *	CRIMPS
CTP22	#6 Sol.–#2 Str.	#6 Sol.–#2 Str.**	1.16	.75	HBKC	1
CTP202	#1 Str.–2/0 Str.	#6 Sol.–#2 Str.**	1.41	.75	15501A	1
CTP2020	#1 Str.–2/0 Str.	#1 Str.–2/0 Str.	1.54	.75	15501A	1
CTP25020	3/0 Str.–250 kcmil	#6 Sol.–2/0**	1.97	.75	15G86R	1
CTP250250	3/0 Str.–250 kcmil	3/0 Str.–250 kcmil	2.06	.88	15G86R	1
CTP50020	300–500 kcmil	#6 Sol.–2/0**	2.42	.88	15G121R	2
CTP500250	300–500 kcmil	3/0 Str.–250 kcmil	2.67	.88	15G121R	2
CTP500500	300–500 kcmil	300–500 kcmil	2.91	1.10	15G121R	3

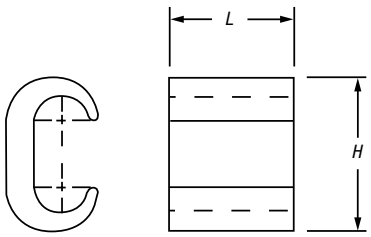
Material: High-Conductivity Copper.

** Cat. No. 15500 adapter required if using TBM15I and 155XX series dies.*

*** #6 AWG branch must be doubled.*

Copper C-Crimps††





DB

CAT. NO.	RUN	TAP	DIE INDEX	INSTALLING DIE TBM14M 13100A, TBM151	DIMENSION (IN.) H	DIMENSION (IN.) L
BC48	#6 Sol.–#4 Str.	#8 Sol.–#8 Str.	BG or ⅝	B58CS	41/64	9/16
BC46-BB	#6 Sol.–#4 Str.	#6 Sol.–#6 Str.	BG or ⅝	B58CS	41/64	¾
BC44	#6 Sol.–#4 Str.	#4 Sol.–#4 Str.	BG or ⅝	B58CS	41/64	51/64
BC24	#2 Sol.–#2 Str.	#8 Sol.–#4 Str.	C	HBKC	¾	63/64
BC22	#2 Sol.–#2 Str.	#2 Sol.–#2 Str.	C	HBKC	¾	1 3/64
BC202	1/0 Sol.–2/0 Str.	#8 Sol.–#2 Str.	E or O	HO	15/16	1 5/16
BC2020-BB	1/0 Sol.–2/0 Str.	1/0 Str.–2/0 Str.	E or O	HO	15/16	1 11/32
BC402	3/0 Str.–4/0 Str.	#6 Sol.–#2 Str.	F or D3	HD	1 1/16	1⅝
BC4020	3/0 Str.–4/0 Str.	1/0 Sol.–2/0 Str.	F or D3	HD	1 1/16	1 5/16
BC4040	3/0 Str.–4/0 Str.	3/0 Sol.–4/0 Str.	F or D3	HD	1 1/16	1 5/16

†† Does not meet IEEE 837.

Material: High-Conductivity Copper.

UL 467 Listed.

Tooling: ***pp. F-80–F-100****.*

Die Selector Chart: ***pp. F-101–F-104****.*

E-Z-Ground® Grounding Connectors

Perform line tap-offs, dead-ending and grounding on a range of conductors.

Copper C-Type Compression Taps

- Can be held in the dies or jaws of an installation tool, then hooked directly over the line for time-saving installations
- Manufactured from pure electrical-grade copper for a highly conductive, low resistance, reliable connection
- Die references marked on connector for easy identification
- RUS Accepted

CC 4040

Copperweld-Copper Conductor

8A — Use C-Tap accommodating #6 str. Copper
6A — Use C-Tap accommodating #4 str. Copper
4A — Use C-Tap accommodating #2 str. Copper
2A — Use C-Tap accommodating 1/0–2/0 Copper

Copper C-Type Compression Taps

CAT. NO.	WIRE RANGE A GROOVE	WIRE RANGE B GROOVE	INSTALLING DIES	LENGTH (IN.)
CC 48	#6 sol.–#4 str.	#8 sol.–#8 str.	TU, BG, 5/8	5/8
CC 46	#6 sol.–#4 str.	#6 sol.–#6 str.		
CC 44	#6 sol.–#4 str.	#4 sol.–#4 str.		
CC 24*	#2 sol.–#2 str.	#8 sol.–#4 str.	TM or C	3/4
CC 22	#2 sol.–#2 str.	#2 sol.–#2 str.		
CC 202	1/0 sol.–2/0 str.	#8 sol.–#2 str.	E or O	7/8
CC 2020	1/0 sol.–2/0 str.	1/0 sol.–2/0 str.		
CC 402	3/0 sol.–4/0 str.	#6 sol.–#2 str.	F or D3	1 1/16
CC 4020	3/0 sol.–4/0 str.	1/0 sol.–2/0 str.		
CC 4040	3/0 str.–4/0 str.	3/0 str.–4/0 str.		

** When using #1 Str. in the A Groove, the B Groove will accommodate #6 or #8 Str. or #8 Sol.*

***Note**: For tin-plating option, add "–TN" suffix to the catalog number.*

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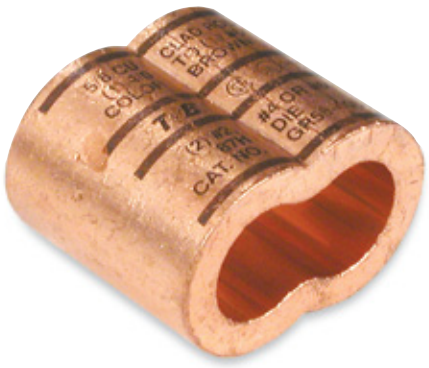
E-Z-Ground® Grounding Connectors

Hex compression intimately bonds cable directly to ground rod.

Pigtail Connectors

- Figure-8 connectors
- Conforms to IEEE 837 standard
- UL467 Listed



When connecting cable to ground rod for direct burial or in concrete, the connector shall be wrought copper with minimum conductivity of 99% I.A.C.S., such as Thomas & Betts series GR12-306. Hex compression with die code embossing shall be used.

DB UL CSA MEETS IEEE 837 REQUIREMENTS

CAT. NO.	CABLE RANGE	GROUND ROD	DIE CODE FOR TBM14M, 13100A OR TBM15I
GR12-306	One Cable: 3/0 to #6 AWG Two Cables: #2 to #6 AWG	½"	87H
GR58-406	One Cable: 4/0 to #6 AWG Two Cables: #2 to #6 AWG	⅝"	87H
GR34-4010	One Cable: 4/0 to 1/0 AWG	¾"	99H

Tooling: ***pp. F-80–F-100***.

Die Selector Chart: ***pp. F-101–F-104***.

Ground Plates

DB UL CSA MEETS IEEE 837 REQUIREMENTS

CAT. NO.	FIG.	CABLE RANGE	H	DIES
GP2250-2	1	#2–250 kcmil	3⅜"	15G86R
GP2250-4	2	#2–250 kcmil	4 7/32"	15G86R
GP250500-2	1	250–500 kcmil	3⅜"	15G126R
GP250500-4	2	250–500 kcmil	4 7/32"	15G126R

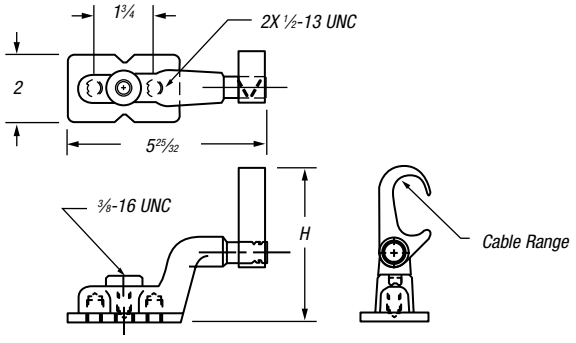


Fig. 1

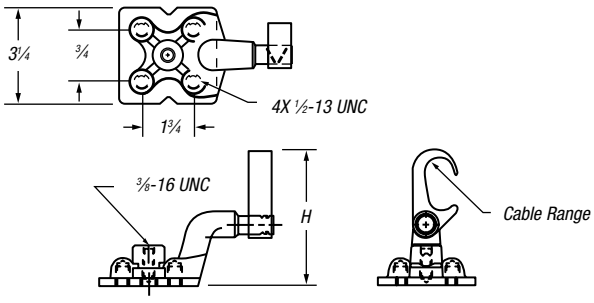


Fig. 2

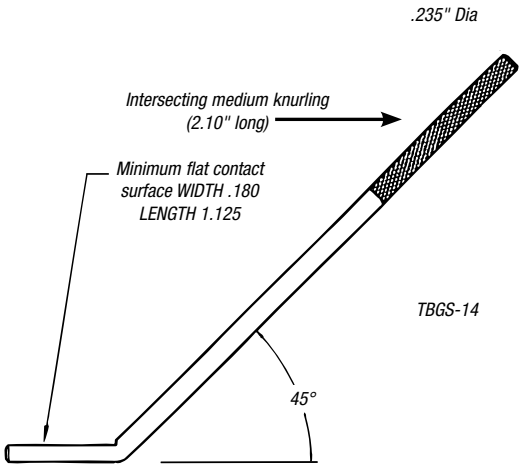
E-Z-Ground® Grounding Connectors

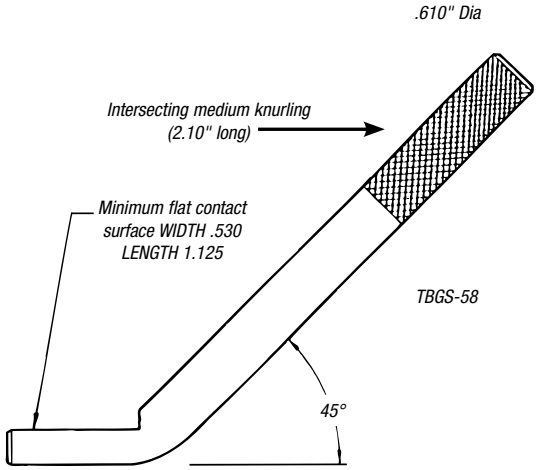
Knurling ensures excellent mechanical pull-out and electrical continuity.

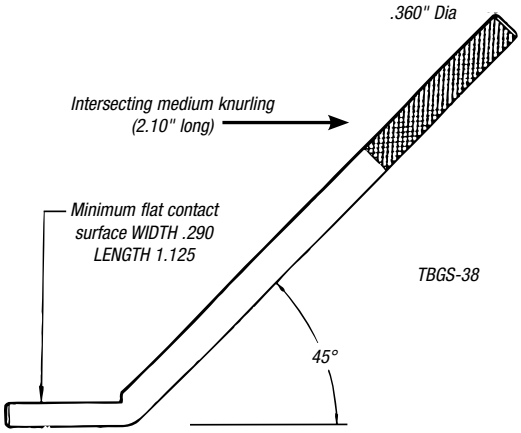
Type TBGS — Structural Grounding Studs

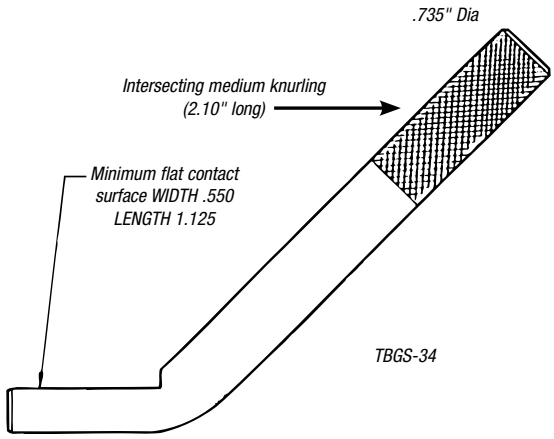
- Easily welded to steel structures with minimal construction welding equipment
- Connect to grounding conductors with appropriate Thomas & Betts grounding connectors
- Knurled portion of stud resists pull-out and provides electrical continuity to ensure the integrity of the grounding circuit
- Constructed of high-strength steel and coated with corrosion-resistant copper cyanide

CAT. NO.	ROD SIZE
TBGS-14	¼"
TBGS-38	⅜"
TBGS-58	⅝"
TBGS-34	¾"









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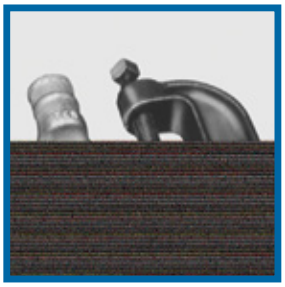
E-Z-Ground® Grounding Connectors

Connect ground cable to I-beam or any 1" maximum structural steel member — without welding or drilling.

I-Beam Ground Clamp



- Breakaway bolt head shears at predetermined torque to ensure tight connection
- Heavy-duty compression lug provides excellent current-carrying capabilities
- Surface of steel must be cleaned in accordance with installation instruction sheet provided with product
- Connector made of high-conductivity cast copper bright dip
- Clamp made of drop-forged high-grade steel, zinc plated

MEETS IEEE 837 REQUIREMENTS

CAT. NO.	WIRE RANGE	TBM15I INSTALLING TOOL, DIE CODE
IBG2-10	#2 thru 1/0 AWG	71
IBG20-40	2/0 thru 4/0 AWG	87
IBG350-500	350 thru 500 kcmil	115

Hydraulic tooling with hex crimp dies.

Satisfies requirements of NEC® 250.64(C)(1) for connecting to grounding electrode system.

Cast Copper Two-Way Connector — Heavy-Duty

- Made from high-conductivity cast copper
- Electro-tin-plated finish

DB

CAT. NO.	DIE SIZE	DIE CODE
53504	#8 AWG	29
53505	#6 AWG	29
53506	#4 AWG	29
53507	#2 AWG	45
53508	#1 AWG	45
53509	1/0 AWG	45
53510	2/0 AWG	66
53511	3/0 AWG	66
53512	4/0 AWG	66
53513	250 kcmil	76
53515	350 kcmil	99
53518	500 kcmil	99
53523	750 kcmil	112

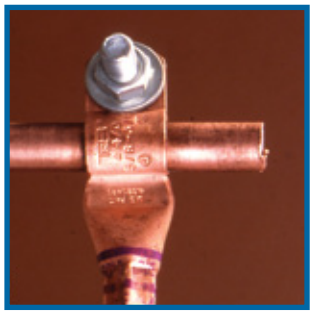
Use hydraulic tools with hex dies.

E-Z-Ground® Grounding Connectors

Provides a permanent, reliable connection.

Ground Clamp

- Crimps to cable
- Clamps to ground rod and rebar
- Uses standard Color-Keyed® hand and hydraulic tools
- Color coded for easy installation die selection
- Made from high-conductivity wrought copper
- Furnished with stainless steel hardware, ¼" washers, bolts and nuts
- UL467 — approved for direct burial



DB

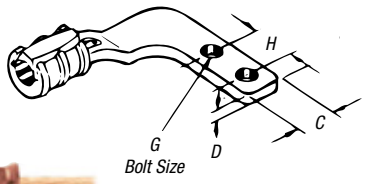
CAT. NO.	WIRE SIZE	GROUND ROD DIAMETER (IN.)	REBAR # (IN.)	BOLT SIZE (IN.)	DIE CODE
CC2C-45R	#2–#3 AWG	½ or ⅝	⅘	¼	33-BROWN
CC1C-45R	#1 AWG	½ or ⅝	⅘	¼	37-GREEN
CC10C-56R	1/0 AWG	⅝ or 3¼	⅝	⅜	42-PINK
CC20C-56R	2/0 AWG	⅝ or 3¼	⅝	⅜	45-BLACK
CC40C-56R	4/0 AWG	⅝ or ¾	⅝	⅜	54-PURPLE

UL467 – Approved for direct burial.

Terminate or connect continuous runs of copper cable to flat surfaces.

Flat-Surface Ground Clamp

- Captivated "keeper bar" design extends cable range and helps hold cable prior to crimping, facilitating installation
- Saddles marked with conductor size and die code
- Conductor can be assembled to saddle with standard dies and hydraulic tools
- Made from high-conductivity cast copper



DB

CAT. NO.	WIRE RANGE	BOLT HOLE	DIE CODE NO.*	UNIT QUAN.	STD. PKG.	WT. PER 100	HEX DIE		INCHES				
							CAT. NO.	DIE CODE NO.	L1	L2	D	C	H
53055FL	1/0–2/0 AWG	⅜"	66	2	10	75	15534*	66	4 3/32	3 21/32	9/32	1⅜	1
53065FL	4/0 AWG–250 kcmil	⅜"	87H	2	10	112	15506**	87H	4½	4 3/32	5/16	1⅜	1

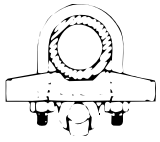
** TM14M, 13100A, TBM15I with hex crimp dies.*

*** TBM15I with hex crimp dies only.*

Bond copper conductors to steel or aluminum fence post or top rail of round fence posts.

Grid-to-Fence Ground Clamp

- Provide quick, dependable installation at low installed cost
- Use no incendiary materials
- Body made from cast copper alloy with steel U-bolt



CAT. NO.	GROUND CABLE RANGE	DIE CODE	STEEL & ALUMINUM LINE POST RANGE (IN.)
FG2040R2	2/0–3/0–4/0 Str.	76	2
FG2040R25	2/0–3/0–4/0 Str.	76	2½
FG2040R3	2/0–3/0–4/0 Str.	76	3
FG210R2	#2–#1–1/0 Sol. or Str.	66	2
FG210R25	#2–#1–1/0 Sol. or Str.	66	2½
FG210R3	#2–#1–1/0 Sol. or Str.	66	3

Install with hydraulic tooling with hex crimp dies.

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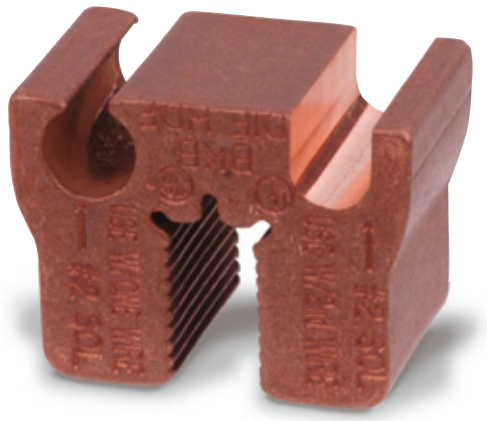
E-Z-Ground® Grounding Connectors

Cuts installation time in half — with results superior to conventional connectors.

E-Z-Ground® Bus Bar Connector



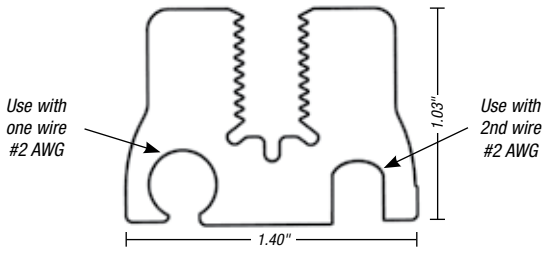
- Unique design
- Fast and easy installation
- Superior low-resistance, high-conductivity connections
- Installs with conventional compression tools
- Produces a permanent connection with any combination of copper from #6 to #2 solid or stranded conductor, to ¼" copper bus bar
- Made from pure wrought copper and prefilled with oxide inhibitor
- UL® Listed and CSA certified
- Insulated with die HDF

E-Z-Ground® Bus Bar Connectors install in less than two minutes with one easy crimp! The connector attaches directly to the bus, saving the labor-intensive process of drilling and tapping. The unique jaw interface of the E-Z-Ground® Bus Bar Connector grips the copper bus, resulting in a low-resistance, high-conductivity connection.

The E-Z-Ground® Bus Bar Connector can be used in OEM applications or telecom applications — cellular, PCS and others. It provides a continuous ground to the copper bus bar, making it ideal for hut and tower applications. The design enables installation in virtually any position, horizontal or vertical, and is suitable for inside and outside plant use. Installation can be completed using any T&B compression tool that accepts U-shaped die sets and is rated 12-ton or higher.

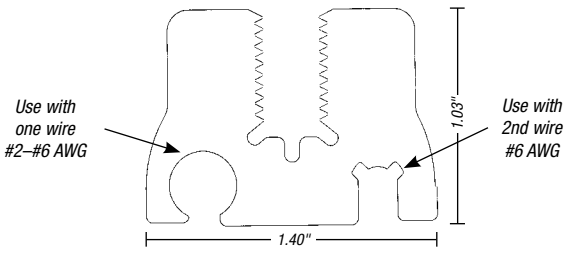
CAT. NO.	BUS BAR THICKNESS (IN.)	CONDUCTOR RANGE	STD. PKG. QTY.
GBBC22	¼	#2 AWG–#2 AWG	1
GBBC26	¼	#6 AWG–#2 AWG	1

Use this side of the connector when using only one wire.



¼ Bus GBBC22

Use this side of the connector only when using two wires.

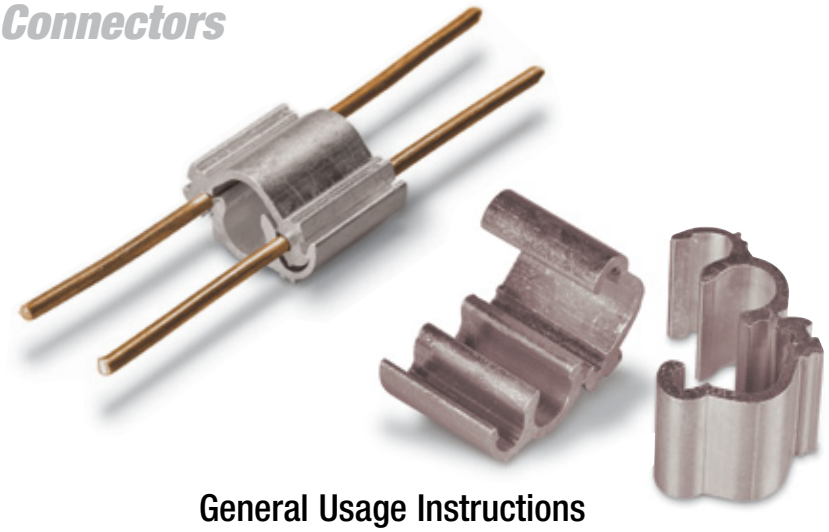


¼ Bus GBBC26

E-Z-Ground® Grounding Connectors

A "snap" to assemble — no special tools required.

SnapTap® Connector



- Designed for bonding and grounding applications using copper, steel strand and ground rod
- Easily installed with channel locks or pliers
- Made from high-strength aluminum alloy with tin plating
- Offers excellent electrical and mechanical characteristics
- UL467 tested — exceeds performance requirements

With the SnapTap® Connector, you can achieve an electrically superior, pressure-fit connection in seconds without expensive tooling. The connector is also easy to disassemble, requiring only a flat-head screwdriver to release the connected body. A one-piece design keeps parts together, minimizing loss of components prior to assembly. Simply separate the pieces and snap them in place for installation. An audible "snap" indicates that the connection is complete and properly installed.

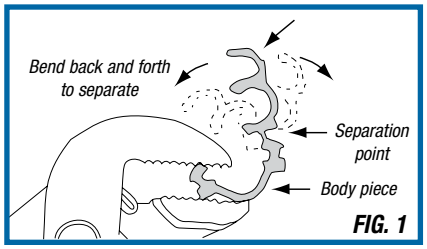


FIG. 1

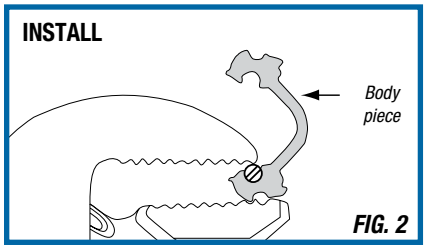


FIG. 2

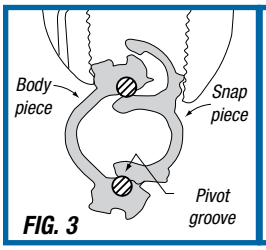


FIG. 3

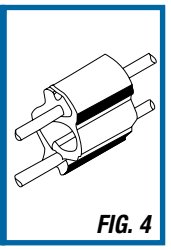


FIG. 4

General Usage Instructions

Separate

No special tools required. Use ordinary parallel jaw pliers to separate the connector into two parts. Hold one side of connector with pliers and bend opposite side back and forth until parts separate (see **Fig. 1**).

Caution: Be careful not to pinch fingers or thumb when separating parts. Keep fingers out of bend path when bending part against plier jaws.

Installation

1. Strip the insulation from each de-energized conductor. Be careful not to nick the conductor. Clean the conductor ends with a wire brush or emery cloth if necessary.
2. Place each conductor into the grooves in BODY piece. Press conductors with pliers to align and seat into grooves (see **Fig. 2**).
3. Hold the conductors and BODY piece until it stops. Use parallel jaw pliers and grip the SNAP and BODY pieces as shown (see **Fig. 3**). Apply pressure until connector "snaps" into place. Visually inspect snap to verify full insertion. The connection is now complete (see **Fig. 4**).

Removal

The connector can be disassembled using a flat-head screwdriver to pry the SNAP piece from BODY piece.

	CONNECTOR DESCRIPTION		PACKAGING		STANDARD ORDER QUANTITY
	MAIN	BRANCH	INNER PACK	OUTER PACK	
JP62	#2 AWG Sol. Copper	#6 AWG Sol. Copper	20	200	200
JP66	#6 AWG Sol. Copper	#6 AWG Sol. Copper	20	200	200
JP146	¼" Steel Strand	#6 AWG Sol. Copper	20	200	200
JP5166	5/16" Steel Strand	#6 AWG Sol. Copper	20	200	200
JP386	⅜" Steel Strand	#6 AWG Sol. Copper	20	200	200
JP126	½" Steel Strand	#6 AWG Sol. Copper	20	200	200
JP126G	½" Ground Rod	#6 AWG Sol. Copper	20	200	200
JP2614	¼" Steel Strand	(2) #6 AWG Sol. Copper	20	200	200
JP26516	5/16" Steel Strand	(2) #6 AWG Sol. Copper	20	200	200
JP2638	⅜" Steel Strand	(2) #6 AWG Sol. Copper	20	200	200
JP2612G*	½" Ground Rod	(2) #6 AWG Sol. Copper	20	200	200

Note: *All Toolless Connectors are UL Listed. Only items with (*) are CSA listed.*

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