



Safe and Effective Solutions

Hubbell Power Systems offers a broad range of innovative and dependable bonding and grounding products. Engineering expertise and leading-edge manufacturing facilities provide our customers with continuous design improvements for a worry-free equipment installation.

Our products meet all applicable standards and certifications and come with technical support for smooth, safe operation. Our quality assurance practice is peace of mind that comes with the HPS and Electric Motion Company brands.

BONDING & GROUNDING



Ground Rods

COPPER BONDED

- Manufactured by molecularly bonding 99.95% pure electrolytic copper to high-strength steel core rod.
- Core rod is rated for 80,000 lb tensile strength for driving into hard soils.
- Satisfies the requirements of NEMA GR-1 specifications.
- Threaded and non-threaded Ground Rods are offered in both 10 mil and 13 mil (RUS specified) plating thickness.
- Each rod permanently marked with manufacturers designation and catalog number.
- Available accessories include couplers, drive heads, drive tips, ground rod clamps and conductive paste.
- A complete line of bronze ground rod clamps are available for connecting copper cable in parallel with the copper bonded Ground Rod.
- A heavy-duty clamp is available for high-pressure applications.

Copper Bonded Ground Rods – Non-Threaded				
Catalog Number	Plating Thickness mil ⁽¹⁾⁽²⁾	Rod Diameter Inches	Rod Length ft	Approx Ship Wt Each (lbs)
C615885	5	5/8	8	6.80
C611380	10	1/2	8	5.40
C611300	10	1/2	10	7.06
C615860	10	5/8	6	5.20
C615880	10	5/8	8	6.80
C615800	10	5/8	10	8.60
C613460	10	3/4	6	7.88
C613480	10	3/4	8	9.80
C613400	10	3/4	10	12.00
C615883	13	5/8	8	6.80
C615803	13	5/8	10	8.60
C613483	13	3/4	8	9.80

(1) 10 mil plating thickness meets the requirements of ANSI/NEMA GR-1.

(2) 13 mil plating thickness meets the requirements of and ANSI/NEMA GR-1.



Non-Threaded

Threaded

Ground Rods

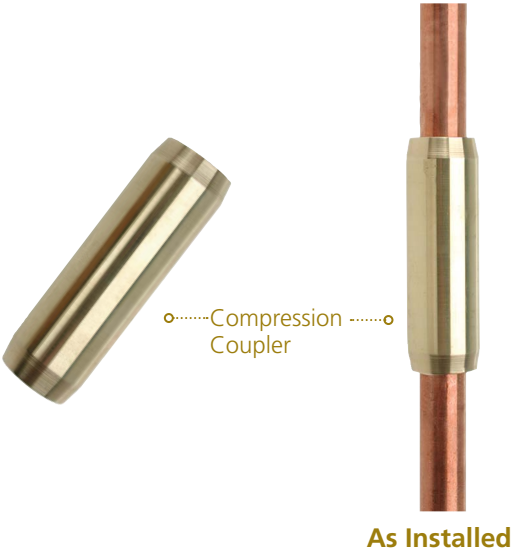
COPPER BONDED

Coupler for Non-Threaded Ground Rods		
Catalog Number	Rod Diameter Inches	Approx Ship Wt Each (lbs)
CCC12	1/2	0.40
CCC58	5/8	0.56
CCC34	3/4	0.60

Threaded Ground Rods				
Catalog Number	Plating Thickness mil ^{(1) (2)}	Rod Diameter Inches	Rod Length ft	Approx Ship Wt Each (lbs)
C631380	10	1/2	8	5.50
C631300	10	1/2	10	6.50
C635840	10	5/8	4	3.20
C635880	10	5/8	8	6.80
C635800	10	5/8	10	8.60
C633480	10	3/4	8	9.80
C633400	10	3/4	10	12.00
C635883	13	5/8	8	7.05

- (1) 10 mil plating thickness meets the requirements of ANSI/UL 467-1984 and ANSI/NEMA GR-1.
- (2) 13 mil plating thickness meets the requirements of ANSI/UL 467-1984 and ANSI/NEMA GR-1.

Coupler for Threaded Ground Rods		
Catalog Number	Rod Diameter Inches	Approx Ship Wt Each (lbs)
CTC12	1/2	0.40
CTC58	5/8	0.56
CTC34	3/4	0.60



BONDING &
GROUNDING

Ground Rods

COPPER BONDED

Drive Head for Threaded Ground Rods

Catalog Number	Rod Diameter Inches	Approx Ship Wt Each (lbs)
CTDH58	5/8	0.12
CTDH34	3/4	0.40

Ground Rod or Pipe Clamp – AL/Cu

Catalog Number	Type	Rod Diameter Inches	Weight Each lb (kg)
GC1	Standard	3/8 - 1	.11 (.05)

NOTE: Refer to Anderson & Fargo Connector Catalog for additional information.

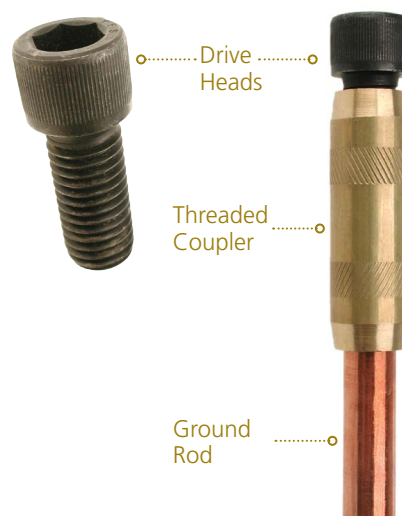
Ground Rod Clamps – Bronze

Catalog Number	Type	Rod Diameter Inches	Weight Each lb (kg)
GC4	Normal Duty	1/2	.09 (.04)
GC5G5	Normal Duty	5/8	.11 (.05)
GC6	Normal Duty	3/4	.13 (.06)
GC10301	Heavy Duty	1/2	.24 (.11)
GC10302	Heavy Duty	5/8	.38 (.17)
GC10303	Heavy Duty	3/4	.51 (.23)

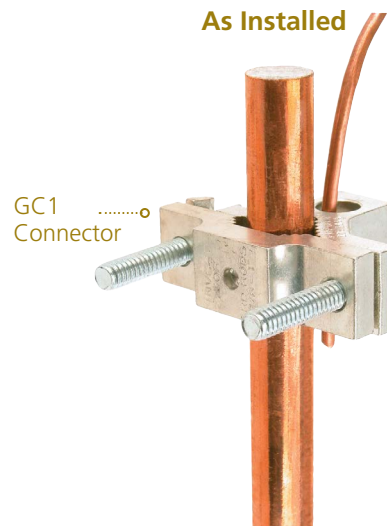
NOTE: Refer to Anderson & Fargo Connector Catalog for additional information.

Conductive Paste

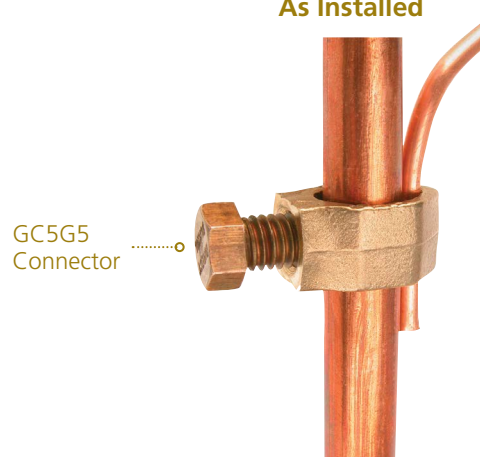
Catalog Number	Description	Standard Package
CP113	8 oz Bottle	12 pcs



As Installed



As Installed



As Installed

Ground Rods

GALVANIZED

- Ground Rods are available with or without copper wire.
- Made of high-carbon, open-hearth steel for maximum strength to resist bending.
- Hot dip galvanized steel rod.

Catalog Number				Type	Dia Inches	Length ft	Approx Ship Wt Each (lbs)
Non-Threaded	Bell Corp Number	Standard With Electro-Brazed Pigtail ⁽²⁾	Drive Head Bolt-Type ⁽³⁾⁽⁴⁾				
8565	402658926	—	—	E	½	5	3.40
8576		—	—		5⁄8	6	6.00
8578 ⁽¹⁾		C2030107 ⁽¹⁾	C2030377 ⁽¹⁾		5⁄8	8	8.00/8.60/893
8580		—	—		5⁄8	10	10.24
8618 ⁽¹⁾		—	—		¾	8	12.00
8620		—	—		¾	10	14.60

- (1) RUS listed.
(2) The electro-brazed pigtail is No. 6 tinned copper on 5⁄8" and ¾" rod.
(3) Bolt-Type Drive Head Ground Rods have surfaces of head and integral clamp tinned.
(4) Non-ferrous bolt with lockwasher accommodates No. 3 to No. 8 stranded wire.



Bolt-Type Drive Head



Standard Electro-Brazed Pigtail



Non-Threaded Type

Ground Rods

GALVANIZED SECTIONAL

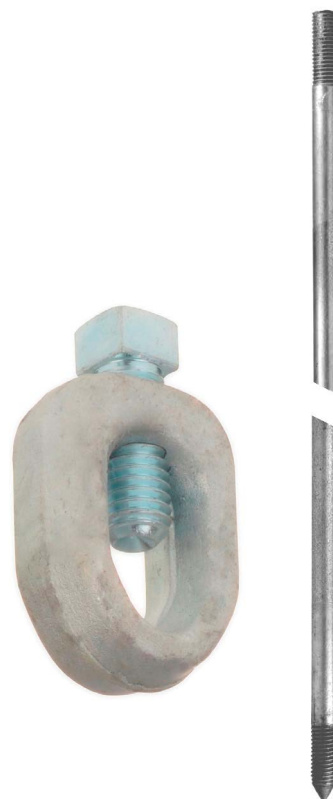
- Made of high-carbon steel as standard.
- All rods have a $\frac{5}{8}$ " cut thread on top and bottom.
- Hot dip galvanized.

Catalog Number	Description	Dimensions		Approx Ship Wt Each (lbs)
		Diameter Inches	Length	
C2030052	Cone Point with $\frac{5}{8}$ " Thread	$\frac{5}{8}$	8'	8.60
8611	Coupling for Above	$\frac{5}{8}$	2"	0.18

CLAMPS

- Heavy duty forged steel clamps provide secure, low resistance connections. One piece bodies.
- $\frac{1}{2}$ " square-head cup point set screw is hot dip galvanized.

Catalog Number	Rod Diameter Inches	Wire Diameter Minimum	Wire Diameter Maximum	Approx Ship Wt Each (lbs)
C2030344	$\frac{5}{8}$.128	.460	0.34
C2030345	$\frac{3}{4}$.128	.460	0.36



No. C2030052

ANCHOR BONDING

Bonding clamps maintain a dependable mechanical and electrical pressure contact between guy strand and anchor rod, when the guy is part of the grounding system.

Catalog Number	Eye Type	Use with	Rod Size	Approx Ship Wt Each (lbs)
G5060	Thimbleye®	Anchor Rod Eyes (Expanding, Crossplate, Rock)	$\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ "	0.22
G5061	Twineye®	Anchor Rod Eyes (Expanding, Crossplate, Rock)	$\frac{5}{8}$ ", $\frac{3}{4}$ "	0.36
G5063	Tripleye®	Anchor Rod Eyes (Expanding, Crossplate, Rock); No-wrench Anchor Rod Eyes	$\frac{3}{4}$ ", 1"	0.41
G5067	Thimbleye®	PISA Eyenuts (Power Installed Screw Anchor Rods)	$\frac{1}{2}$ ", $\frac{5}{8}$ "	0.22
G5068	Thimbleye®	PISA Eyenuts (Power Installed Screw Anchor Rods)	$\frac{3}{4}$ ", 1"	0.36
G5069	Twineye®	PISA Eyenuts (Power Installed Screw Anchor Rods); Anchor Rod Eyes (Expanding, Crossplate, Rock)	$\frac{5}{8}$ ", $\frac{3}{4}$ ", 1"	0.38
C2030148	Tripleye®	PISA Eyenuts (Power Installed Screw Anchor Rods)	$\frac{5}{8}$ ", $\frac{3}{4}$ ", 1"	0.41



No. G5060



No. G5061

Bonding & Grounding Straps, Harnesses & Braid

BONDING BRAID

Plain Bonding Braid

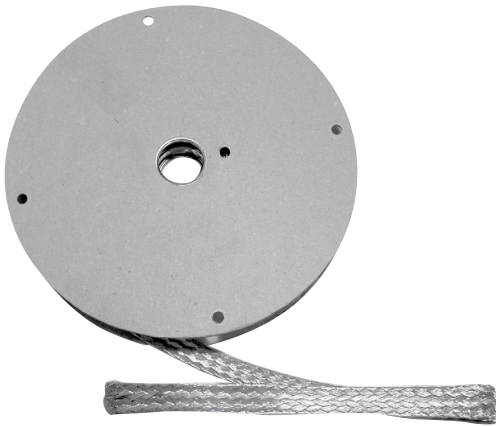
A roll of flexible, woven, tinned copper wire, equivalent to a #6 AWG.

APPLICATIONS

- Provides shield continuity across cable openings
- Ideal for use with heat shrinkable material

FEATURES

- Can be cut to any desired length
- Tinned to reduce the rate of corrosion
- Flexibility allows movement of cable without loosening of bond clamps
- EM-2075 has blue webbed covering pre-installed at factory before spooling



Ordering Information

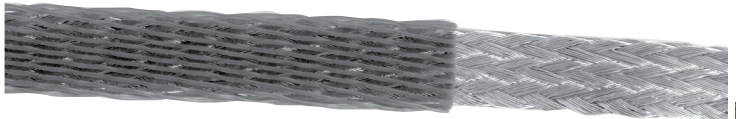
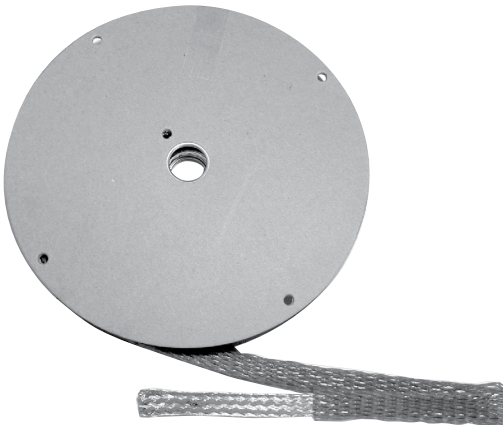
EM-2004 25-foot spool

Standard packaging: 2.7 lb / sp, 10 sp/bx.

EM-2005 100-foot spool

Standard packaging: 9 lb / sp, 2 sp/bx.

EM-2004-1-100 100-foot spool with black PVC covering



Ordering Information

EM-2075 25-foot spool with blue web insulator

Standard packaging: 3.4 lb / sp, 10 sp/bx.

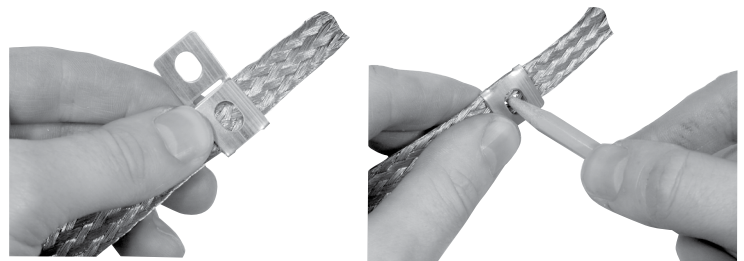
Add suffix **-G** for green web insulator.

Braid Ferrule

When using plain braid, the tinned copper ferrule surrounds all of the strands at the termination point.

Ordering Information

EM-C4000 Braid Ferrule



For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

Bonding & Grounding Straps, Harnesses & Braid

BONDING BRAID, CONTINUED

Bonding Braid with Eyelets

#6 AWG braided tinned copper wire with factory-installed eyelets, 3" spacing, hole diameter 1/4".



APPLICATIONS

- Rehab of pedestals and aerial closures
- Provides bond when using heat shrinkable material

FEATURES

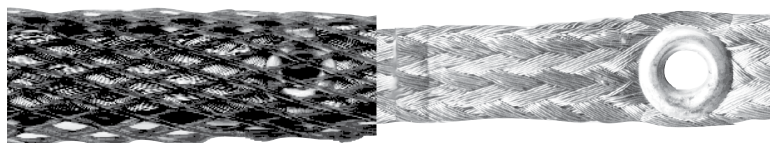
- Coils can be cut to length (no waste)
- Low profile design on eyelet
- Braid flexibility allows cables to move
- EM-2030 has blue webbed covering pre-installed at factory before spooling



Ordering Information

EM-2025 25-foot spool uninsulated

Standard packaging: 2.8 lb / sp, 10 sp/bx.



Ordering Information

EM-2030 25-foot spool with blue web insulator

Standard packaging: 3.5 lb / sp, 10 sp/bx.

Add suffix **-G** for green web insulator.

Bonding & Grounding Straps, Harnesses & Braid

BONDING BRAID, CONTINUED

Ultrabond

#6 AWG braided copper wire with factory-installed eyelets with arms, solder-connected, 3" spacing, hole diameter 1/4".

APPLICATIONS

- Rehab of pedestals and aerial closures
- Provides bond when using heat shrinkable material

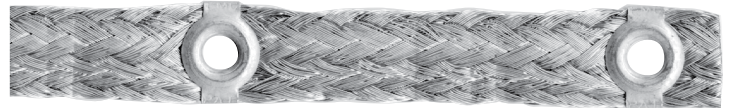
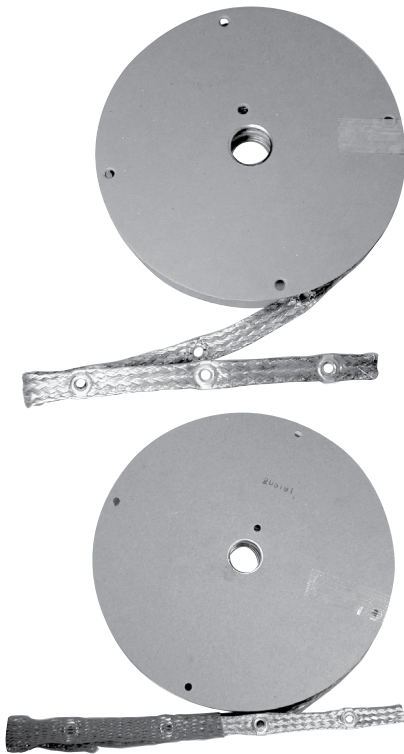
FEATURES

- Compact design
- Gas-tight crimp maximizes conductivity by reducing cold flow and corrosion

- Easily trimmed to the desired length with splicer's scissors; eliminates waste
- Flexibility allows movement of cable without loosening connections
- Factory-installed terminations provide maximum pull-out strength
- Prepunched mounting holes are safer, eliminating the need to use a sharp instrument



RUS Listed



Ordering Information

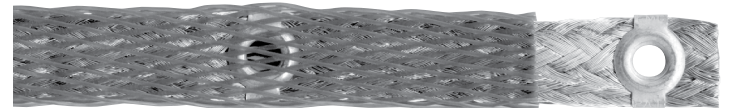
EM-2050 25-foot spool

Standard packaging: 3.3 lb / sp, 10 sp/bx.

EM-2052 50-foot spool

Standard packaging: 6.2 lb / sp, 10 sp/bx.

EM-2050-6 6" eyelet spacing, 25-foot spool



Ordering Information

EM-2051 25-foot spool with blue web insulator

Standard packaging: 3.5 lb / sp, 10 sp/bx.

EM-2053 50-foot spool with blue web insulator

Standard packaging: 7 lb / sp, 10 sp/bx.

Double-Hole Ultrabond

#10 AWG braided copper wire with factory-installed eyelets with arms, solder-connected, 2-1/2" hole diameter #10.



Ordering Information

EM-2070 25-foot spool

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

Bonding & Grounding Straps, Harnesses & Braid

BONDING BRAID, CONTINUED

Ultrabond II with gas-tight crimped connections



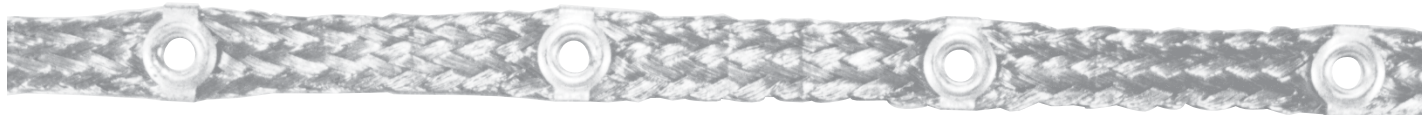
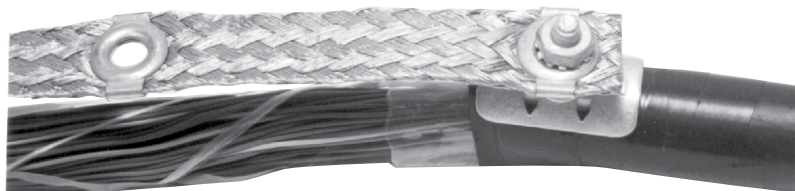
#6 AWG braided tinned copper wire with factory-installed eyelets, 3" spacing, hole diameter 1/4".

FEATURES

- One-piece eyelet with arms will not spin or rotate during installation
- Gas-tight crimp maximized conductivity by reducing cold flow and corrosion
- Easily trimmed to the desired length with splicer's scissors; eliminates waste
- Simple design provides for easy, foolproof installation, terminates like any standard connection
- Flexibility allows movement of cable without loosening connections
- Factory-installed terminations provide maximum pull-out strength; no need to carry special tools
- Pre-punched mounting holes are safer, eliminating the need to use a sharp instrument
- Solderless termination
- Unique patented design

APPLICATIONS

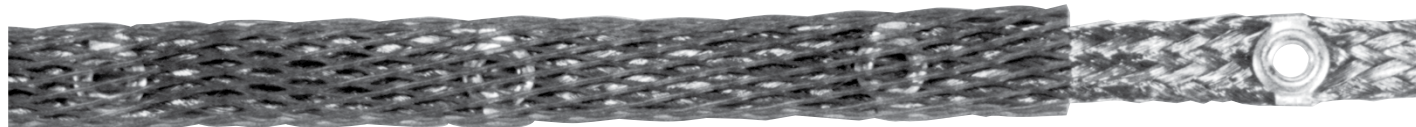
- Grounding and bonding in pedestals and aerial closures
- Provides bond when using heat-shrinkable material
- Provides bond when using closures not equipped with bonding harnesses



Ordering Information

EM-2080 25-foot spool

Standard packaging: 3.3 lb / sp, 10 sp/box.



Ordering Information

EM-2081 25-foot spool with blue web insulator

Standard packaging: 3.6 lb / sp, 10 sp/bx.

Add suffix **-G** for green web insulator.

EM-2012-3SD Ultrabond II with 3/8" holes instead of 1/4"

EM-2010-3AU-25 Same as above, except packaged in a dispenser box instead of on a spool

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Bonding & Grounding Straps, Harnesses & Braid

GROUNDING HARNESSES

#6 AWG Insulated and Bare Flexible Harnesses

Standard lengths: 6", 11", and 18", all RUS listed. Ring terminals, standard hole size #10, insulated and bare versions. For bonding and grounding in pedestal new construction and retrofitting. Please see chart on pages G17 & G18 for other ordering options.



RUS Listed



LISTED
93D6



Ordering Information
EM-8100-18.10 – 18", insulated
Standard packaging: 20/bd, 200/bx, 35 lb/bx.



Ordering Information
EM-8100-11.10 – 11", insulated
Standard packaging: 20/bd, 200/bx, 23 lb/bx.



Ordering Information
EM-8100-18B.10 – 18", insulated
Standard packaging: 20/bd, 200/bx, 32 lb/bx.



Ordering Information
EM-8100-6.10 – 6", insulated
Standard packaging: 20/bd, 200/bx, 14 lb/bx.



Ordering Information
EM-8100-6B.10 – 6", insulated
Standard packaging: 20/bd, 200/bx, 12 lb/bx.



Ordering Information
EM-8100-11B.10 – 11", insulated
Standard packaging: 20/bd, 200/bx, 19 lb/bx.

BONDING &
GROUNDING

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

Bonding & Grounding Straps, Harnesses & Braid

GROUNDING HARNESSES, CONTINUED

#6 AWG Flexible Harnesses with Colored Insulation for Multi-Directional Cable Identification



Ring terminals, standard mounting hole sizes #10 and 1/4".

Colors available: Blue (central office), Orange (north), Brown (south), Slate (west), Green (east), Red (house). For bonding and grounding in pedestal new construction and retrofitting.

Also available as a pedestal kit: five of a fixed length of harness, one each blue, orange, brown, slate, and green.



Ordering Information :

EM-8100 - _____ - _____ - _____
Length of harness Ring terminal Color of insulation
in inches mounting hole size BL = blue, OR = orange, BR = brown,
 .25 or .10 SL = slate, GR = green, R = red

If kit is desired (five colors—does not include red), add the suffix KIT at end instead of color code.

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Bonding & Grounding Straps, Harnesses & Braid

MICROBOND

Ground Straps on a Roll with clear, see-through insulation

Construction: Tinned copper rope-lay with pure copper termination clip. Equivalent to a #6 AWG. Standard terminations every 4 inches, with 1/4" diameter mounting holes.

FEATURES

- Comes with clear PVC insulation in order to locate mounting holes easily
- Clear insulation can come in any color. Various cables in a closure can be identified by colors of bonding harnesses
- Insulation is tight to harness, creates a neater look
- One-piece terminal clip for greater conductivity
- Gas-tight crimp minimizes corrosion
- Comes on a roll—can be cut to length with splicer's snips
- Simple design provides for easy, foolproof installation, terminates like any standard connection
- Flexibility allows movement of cable without loosening connections
- Factory-installed terminations provide maximum pull-out strength, no need to carry special tools
- Pre-punched mounting holes are safer, eliminating the need to use a sharp instrument
- Solderless termination
- Unique patented design



APPLICATIONS

- Continuous looping of ground wire from ground point to ground point with no breaks
- Grounding machinery needing flexible ground because of vibration
- Fence and gate electrical grounding to create various lengths at a site
- Provides bond when using heat shrinkable material
- Provides bond when using closure not equipped with bonding hardware

Ordering Information

EM-06MB-25B-4.25, uninsulated Microbond) can be used for bonding Tyco FOSC® closures.

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

Bonding & Grounding Straps, Harnesses & Braid

MICROBOND, CONTINUED



Ordering Information **EM-06MB-25CBL-4.25** – 25' roll, with clear blue insulation, UV inhibitor.
Standard packaging: 10 sp/box, 33 lb/box.



Ordering Information **EM-06MB-25COR-4.25** – 25' roll, with clear orange insulation, UV inhibitor.
Standard packaging: 10 sp/box, 33 lb/box.



Ordering Information **EM-06MB-25CBR-4.25** – 25' roll, with clear brown insulation, UV inhibitor
Standard packaging: 10 sp/box, 33 lb/box.



Ordering Information **EM-06MB-25CSL-4.25** – 25' roll, with clear slate insulation, UV inhibitor
Standard packaging: 10 sp/box, 33 lb/box.



Ordering Information **EM-06MB-25CG-4.25** – 25' roll, with clear green insulation, UV inhibitor.
Standard packaging: 10 sp/box, 33 lb/box.

All these colors are also available as a kit: 5 rolls, one of each color, in a dispenser box.
Ordering information **EM-06MB-25KIT-4.25**



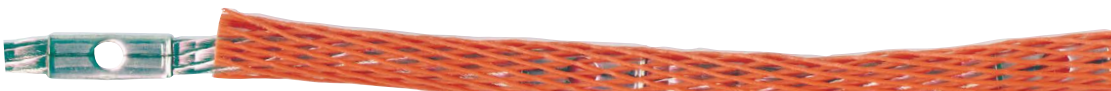
Ordering Information **EM-06MB-25C-4.25** – 25' roll, with clear insulation, UV inhibitor
Standard packaging: 10 sp/box, 33 lb/box.



Ordering Information **EM-06MB-25B-4.25** – 25' roll, uninsulated
Standard packaging: 10 sp/box, 31 lb/box.



Ordering Information **EM-06MB-25I-4.25** – 25' roll, insulated
Standard packaging: 10 sp/box, 35 lb/box.



Ordering Information **EM-06MB-25W-4.25** – 25' roll, with web covering
Standard packaging: 10 sp/box, 34 lb/box.

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Bonding & Grounding Straps, Harnesses & Braid

#6 AWG BONDING HARNESS ORDERING GUIDE

Please note: "XX" in itEM-numbers denotes assembly length.

Untinned Standard

EM-3200 Series –Solid

Solid soft copper wire with a ring terminal on each end.



UNINSULATED

INSULATED

EM-3400 Series – 7-Strand

7-stranded wire with a ring terminal on each end. Standard "D" bond straps.



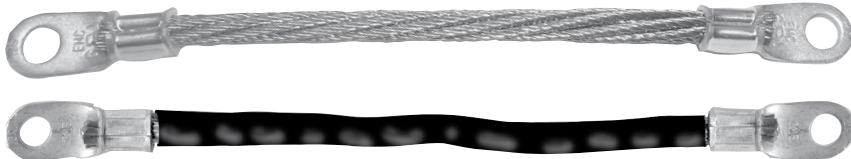
UNINSULATED

INSULATED

Tinned Standard

EM-3600 Series – 49-Strand, 7 x 7/22 Rope-Lay Cable

Rope-Lay Cable 49 strands, rope-lay cable with a ring terminal on each end.



UNINSULATED

INSULATED

EM-8200 Series – 133-Strand, 7 x 19/27 Rope-Lay Cable

133 strands, rope-lay cable with a ring terminal on each end.



UNINSULATED

INSULATED

EM-8100 Series – 427-Strand, 7 x 61/32 Rope-Lay Cable

427 strands, rope-lay cable with a ring terminal on each end.



UNINSULATED

INSULATED

EM-7000 Series – 665-Strand, 7 x 95/34 Rope-Lay Cable

665 strands, rope-lay cable with a ring terminal on each end.



UNINSULATED

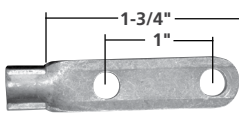
INSULATED

BONDING &
GROUNDING

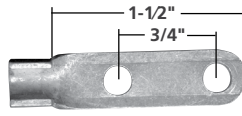
The harnesses above are also available with any of the terminals below. Please call our sales office for ordering information.



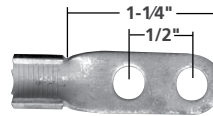
double #10 mounting
hole ring terminal
5/8" spacing:
.625DH.10



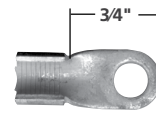
double 1/4" mounting
hole ring terminal
1" spacing:
-1.DH



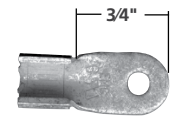
double 1/4" mounting
hole ring terminal
3/4" spacing:
-DHT.75



double 1/4" mounting
hole ring terminal
1/2" spacing:
-DHT.5



single 5/16"
mounting hole
ring terminal:
.312







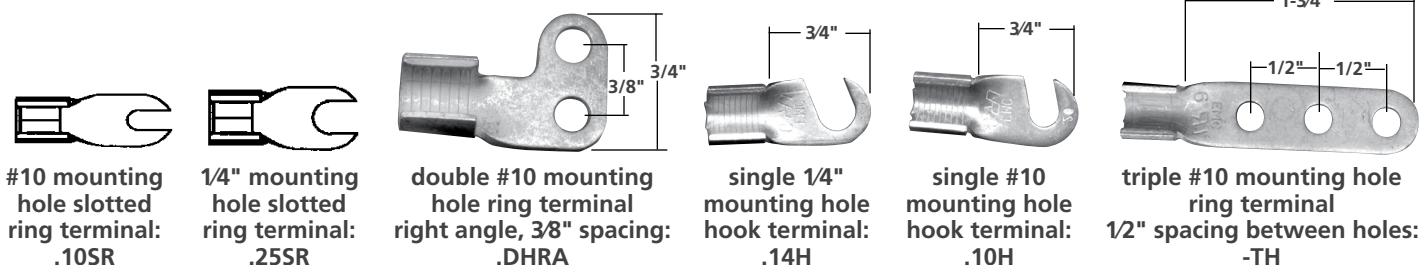
single #8
mounting hole
ring terminal:
.8

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

Bonding & Grounding Straps, Harnesses & Braid

#6 AWG BONDING HARNESS ORDERING GUIDE, CONTINUED

				Insulation Color
single 1/4" mounting hole ring terminal both ends	double 1/4" mounting hole ring terminal both ends, 5/8" spacing	single #10 mounting hole ring terminal both ends	single 3/8" mounting hole ring terminal both ends	
EM-3200-XX	EM-3200-XX-DHDH	EM-3200 (18")	EM-3200-XX.375	Standard insulation color is Black; please use the part numbers in the "INSULATED" rows at left for black insulation. For other colors, please add the following suffixes: BL = Blue OR = Orange BR = Brown SL = Slate GR = Green GY = Green w/Yellow Stripe R = Red
EM-3205-XX	EM-3205-XX-DHDH	EM-3224 (24")	EM-3205-XX.375	
EM-34XX	EM-34XX-DHDH	EM-34XX-10	EM-34XX.375	
EM-34XX-1	EM-34XX-1-DHDH	EM-34XX-1.10	EM-34XX-1.375	
EM-36XX	EM-36XX-DHDH	EM-36XX.10	EM-36XX.375	
EM-36XX-1	EM-36XX-1-DHDH	EM-36XX1.10	EM-36XX-1.375	
EM-8200-XXB.25	EM-8200-XXB-DHDH	EM-8200-XXB.10	EM-8200-XXB.375	
EM-8200-XX.25	EM-8200-XX-DHDH	EM-8200-XX.10	EM-8200-XX.375	
EM-8100-XXB-25	EM-8100-XXB-DHDH	EM-8100-XXB.10	EM-8100-XXB.375	
EM-8100-XX.25	EM-8100-XX-DHDH	EM-8100-XX.10	EM-8100-XX.375	
EM-7000-XXB.25	EM-7000-XXB-DHDH	EM-7000-XXB.10	EM-7000-XXB.375	
EM-7000-XX	EM-7000-XX-DHDH	EM-7000-XX.10	EM-7000-XX.375	



For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Bonding & Grounding Straps, Harnesses & Braid

#6 AWG BOND STRAPS

Solid, soft bare copper wire with a 1/4" compression terminal on each end. Standard lengths: 6", 11", and 18". Please see chart on pages G17 and G18 for other ordering options.



Ordering Information

EM-3200-18 – 18", Standard packaging: 20/bd, 200/bx, 33 lb/bx.

EM-3200-11 – 11", Standard packaging: 20/bd, 200/bx, 19 lb/bx.

EM-3200-6 – 6", Standard packaging: 20/bd, 200/bx, 12 lb/bx.

"D" BOND STRAPS

Seven strands, uninsulated stranded wire with a ring terminal on each end. Standard "D" bond straps. Standard lengths: 6", 11", and 18". Please see chart on pages G17 and G18 for other ordering options.



Ordering Information

EM-3418-18 – 18", Standard packaging: 20/bd, 200/bx, 30 lb/bx.

EM-3411-11 – 11", Standard packaging: 20/bd, 200/bx, 19 lb/bx.

EM-3406-6 – 6", Standard packaging: 20/bd, 200/bx, 12 lb/bx.

JOINT PEDESTAL BOND STRAPS

Solid #6 AWG with black insulation, 1" strip at one end, 3/8" inside diameter ring terminal at the other. 29-3/8" long from end of conductor to barrel of crimp connector.



Ordering Information

EM-3205-29.375, Standard packaging: 10/bg, 100/bx, 27 lb/bx.

#4 AWG FLEXIBLE HARNESSES

#4 AWG rope-lay 7 x 85 x 32 bare tinned harnesses, with 1/4" ring terminals on each end. 16" long center to center.



Ordering Information

EM-04-16.25








For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

Bonding & Grounding Straps, Harnesses & Braid

COPPER GROUND WIRE

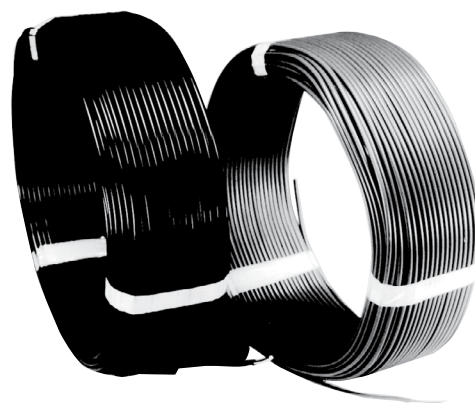
Ordering Information

To create a part number, use the following guide. Standard products are indicated in bold type.

Basic Product	Add Plating	Add Insulation	Add Length in Feet
EM-0140 (solid #14 AWG)	T - tinned B - bare	N - none B - black SL - slate* G - green	XX
EM-1200 (solid #12 AWG) 	T - tinned B - bare	N - none B - black SL - slate G - green	XX
EM-3226 (solid #10 AWG) 	T - tinned B - bare	N - none B - black SL - slate G - green	XX
EM-3227 (solid #8 AWG) 	B - bare	N - none B - black SL - slate G - green	XX
EM-3225 (solid #6 AWG) 	T - tinned B - bare	N - none B - black SL - slate G - green	XX
EM-4500 (solid #6 AWG waterproof)	B - bare	B - black G - green	XX
EM-4560 (solid #6 AWG with .120 thick PVC insulation)	T - tinned B - bare	B - black G - green SL - slate	XX
EM-3400 (#6 AWG 7-strand) 	T - tinned B - bare	B - black N - none SL - slate G - green	XX
EM-4000 (solid #4 AWG) 	T - tinned B - bare	N - none B - black SL - slate G - green	XX
EM-2223 (solid #2 AWG) 	T - tinned B - bare	N - none B - black SL - slate G - green	XX

*formerly GR - gray

Copper ground wire is available from Electric Motion in bare, tinned, insulated, and waterproof versions of various lengths. These are generally available in #12, #10, #8, #6, #4, or #2 AWG, hand coiled or on a spool.



Loose Piece Crimp Terminals

Ordering Information

EM-6-10-R

#6 AWG Tin-Plated Copper Ring

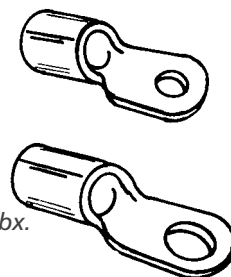
#10 mounting hole.

Standard packaging:

100/sm bx,

1000/lg bx,

1.5 lb/sm bx, 13 lb/lg bx.



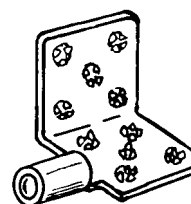
EM-6-25-R

#6 AWG Tin-Plated Copper Ring

1/4" mounting hole.

Standard packaging: 100/sm bx, 1000/lg

bx, 1.5 lb/sm bx, 13 lb/lg bx.



EM-14-TF

#14 AWG TERMI-FOIL®

Standard packaging: 100/bg, 1000/bx, 1.16 lb/bg.

EM-10-TF

#10 and #12 AWG TERMI-FOIL®

Standard packaging: 100/bg, 1000/bx.

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Bonding & Grounding Straps, Harnesses & Braid

WATERPROOF #6 AWG GROUND WIRE FOR SEALED PLANT



Features

- #6 AWG solid conductor
- Polyethylene insulation
- Insulation is bonded to the conductor for sealed plant
- Passes eight foot water head test
- Bonded construction prevents jacket from "acting like a water pipe" to buried splices in long-term field use

Applications

- Ideal for fiber optic splice grounding because moisture adversely affects fiber strength and long-term reliability
- Maintains shield integrity when toning cables

Ordering Information

EM-4500-BB500

500' coil, black insulation.

Standard packaging: 46 lb/coil. No minimum order.

BONDING &
GROUNDING



Bonding & Grounding Straps, Harnesses & Braid

#6 AWG FLEXIBLE/SOLID GROUND STRAPS

A combination solid #6 AWG and flexible #6 AWG ground strap with 1/4" ring terminal on each end. For bonding and grounding in sealed plant pedestals, closures, and PedCap RM™ closures. Combining solid, bare wire with stranded provides a flexible and airtight connection.

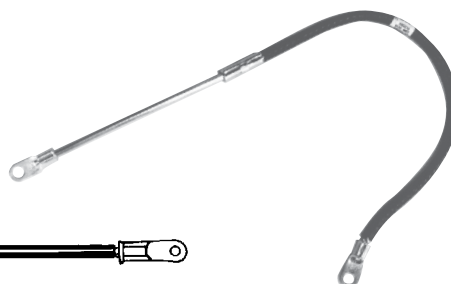
Ordering Information

EM-3210 – 6" solid, 12" stranded #6 AWG

Standard packaging: 20/bd, 200/bx, 35 lb/bx.



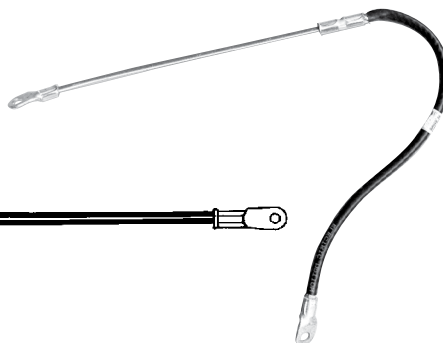
LISTED 93D6



Ordering Information

EM-3220 – 9" solid, 9" stranded #6 AWG

Standard packaging: 20/bd, 200/bx, 32 lb/bx.



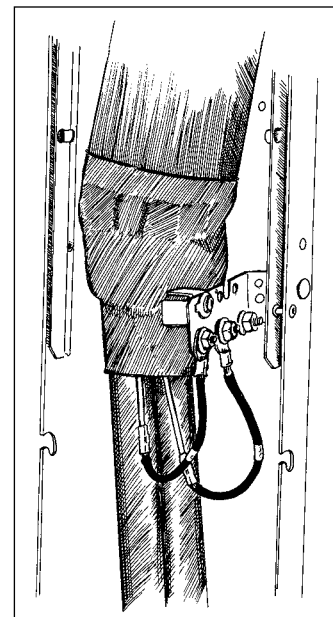
Ordering Information

EM-3230 – 10" solid, 8" stranded #6 AWG

Standard packaging: 20/bd, 200/bx, 32 lb/bx.



LISTED 93D6



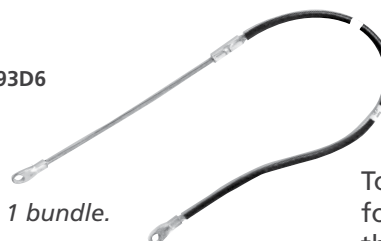
Ordering Information

EM-3250 – 6" solid, 14" stranded #6 AWG

Standard packaging: 20/bd, 200/bx, 42 lb/bx.



LISTED 93D6



EM-3270 – 6" solid, 24" stranded #6 AWG

Standard packaging: 20/bd, 100/bx, 30 lb/bx. Minimum order 1 bundle.

EM-3275 – 6" solid, 32" stranded #6 AWG

Standard packaging: 20/bd, 100/bx.

To order colored insulation for any of these straps, add the following suffixes:

BL = Blue

BR = Brown

GR = Green

OR = Orange

SL = Slate

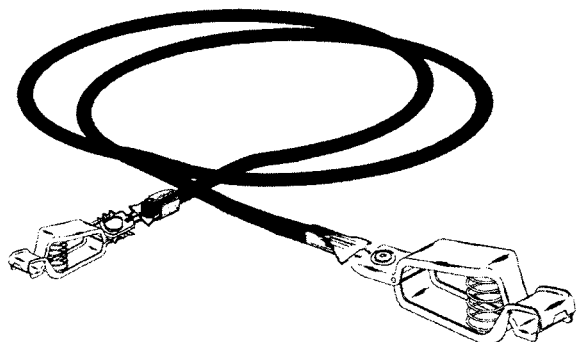
For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Bonding & Grounding Straps, Harnesses & Braid

TEMPORARY BOND STRAPS

Available in 2-foot and 5-foot lengths, for temporary bonding across splices, to strand, and to streetlight fixtures. 5-foot bond provides shield continuity across cable openings during splicing operations. 2-foot bond can be used as a ground lead from one side of splice to the strand.



Features

- #14 AWG conductor
- #24A and #11A test clips

Ordering Information

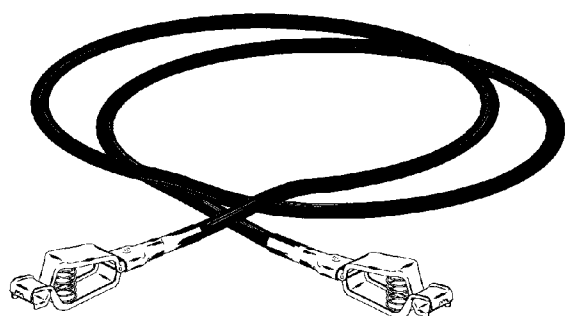
EM-4009 – 2-foot strap

Standard packaging: 1/bg, 25/bx, 14 lb/bx.

EM-4008 – 5-foot strap

Standard packaging: 1/bg, 25/bx, 15 lb/bx.

EM-4008-04TPR – #4 AWG conductor, 5-foot strap with black TPR insulation.



Features

- #12 AWG conductor
- #27 test clips
- Type S wire

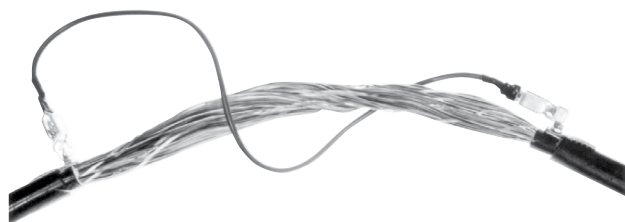
Ordering Information

EM-4011 – 2-foot strap

Standard packaging:
10/bd, 100/bx, 17.45 lb/bx.

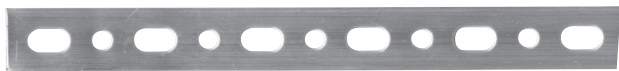
EM-4010 – 5-foot strap

Standard packaging:
100/bx, 28 lb/bx.



Bonding & Grounding Straps, Harnesses & Braid

PERFORATED BONDING RIBBON



A tinned copper strip perforated with alternating slots and holes. Equivalent to a #6 AWG conductor (26,244 circular mil area). Available as a standard in 25-foot coils.

Applications

- Provides bond when using heat-shrinkable material
- Bonding in cable vaults
- Replaces missing or defective bonds in the rehabilitation of pedestals and aerial closures

Features

- Easily trimmed to the desired length with splicer's scissors, eliminating waste
- Simple construction provides for easy foolproof installation
- Replaces missing or defective bonds in the rehabilitation of pedestals and aerial closures

Ordering Information

EM-4425 – 25-ft. coil

Standard packaging: 10 coils/bx, 27 lb/bx.

EM-4527 – 100-ft. roll

Standard packaging: 3 rolls/bx, 12 lb/l.

EM-4425-ET – 25-ft. coil, tin-plated after processing

Standard packaging: 10 coils/bx, 27 lb/bx.

EM-4425I – 225-ft. coil with black PVC jacket



LISTED 84D8

BOND BAR/BOND BAR WITH TUBING

A roll of soft tin-plated electrical grade copper with alternate round and slotted holes.

Applications

For bonding across splices, shield continuity, and general grounding.

Features

- Can be cut to length
- Available with black PVC insulator pre-installed at the factory
- Easily sealed against "B" sealing tape when exiting splice case
- Soft temper helps material form easily for neater installation

Ordering Information

EM-4420 – 25-ft. coil, tin-plated, no insulator

Standard packaging: 10 sp/bx, 20 lb/bx.

EM-4420-100 – 100-ft. coil, tin-plated, no insulator

Standard packaging: 5 sp/bx, 41 lb/bx.

EM-4422 – 25-ft. spool, with PVC insulator

Standard packaging: 10 sp/bx, 36 lb/bx.



LISTED 84D8



For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Bonding & Grounding Straps, Harnesses & Braid

WIRE AND CABLE BONDING/GROUNDING PRODUCTS

#14 AWG (unless otherwise noted) with green insulation. Other lengths, terminal combinations, and insulation colors are available; please call our sales office.

Ordering Information

(25/lb, 200/bx. Standard packaging listed after part number; required.)

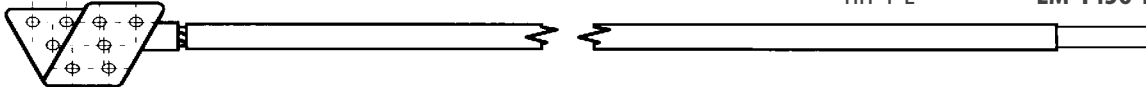
former Jamac
catalog number

EMC
part number

TERMI-FOIL®* type for buried plant housings (solid conductor)

HH-1
HH-1-L

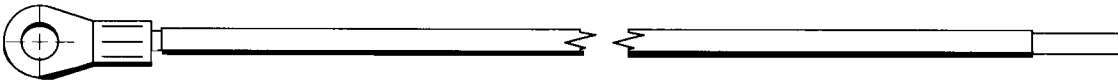
EM-1415-TFP (15") 7 lb/bx
EM-1436-TFP (36") 14 lb/bx



Ring type for buried plant housings (solid conductor)

HH-2
HH-3

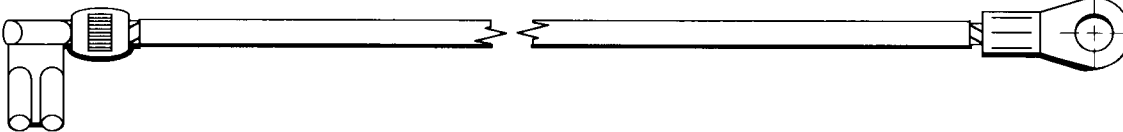
EM-1415-RP (15") 6 lb/bx
EM-1436-RP (36") 12 lb/bx



Flag/ring type for cable in buried plant housings employing tab connectors (stranded conductor)

HH-4
HH-5

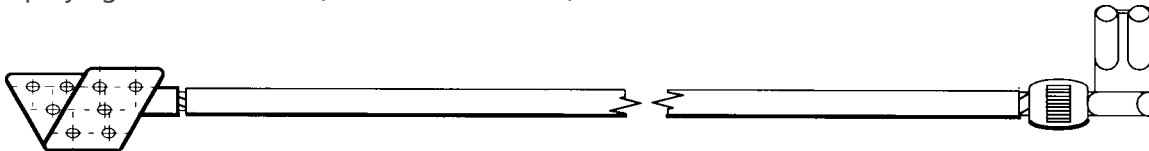
EM-1415-FLR (15") 6 lb/bx
EM-1436-FLR (36") 14 lb/bx



Flag/TERMI-FOIL® type for service wire in buried plant housings employing tab connectors (stranded conductor)

HH-6
HH-6-L

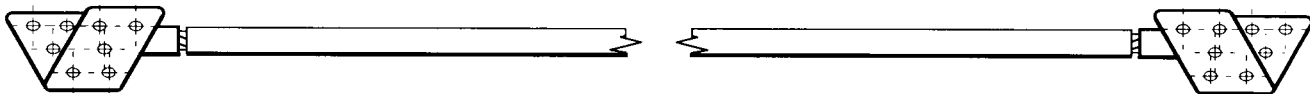
EM-1415-FLTF (15") 6 lb/bx
EM-1436-FLTF (36") 15 lb/bx



TERMI-FOIL® type for splices

HS-11

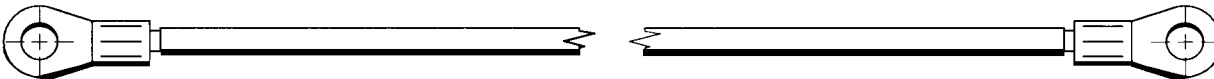
EM-1420-TFTF (20") 8 lb/bx



Ring type for cable splices

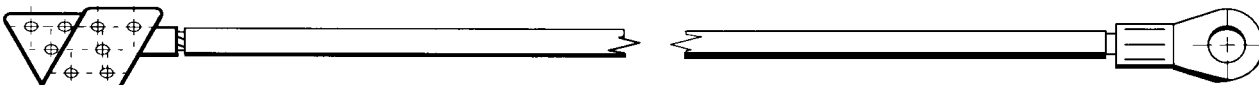
HS-13
HS-14

EM-1410-RR (10") 4 lb/bx
EM-1420-RR (20") 7 lb/bx



TERMI-FOIL®/Ring type

EM-1412-TFR (12")
EM-1415-TFR (15")
EM-1008-TFR (8", #10 AWG)



*TERMI-FOIL® is a registered trademarks used by TE Connectivity Incorporated.

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

Bonding & Grounding Straps, Harnesses & Braid

WIRE AND CABLE BONDING/GROUNDING PRODUCTS (CONTINUED)

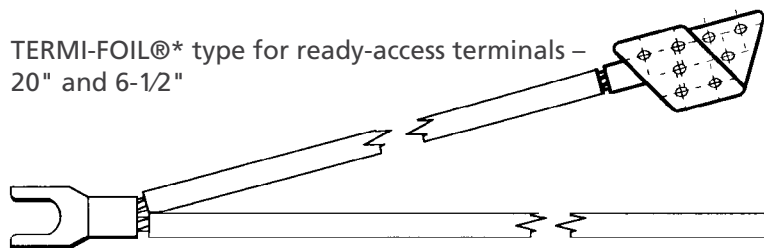
TERMI-FOIL®* type for ready-access terminals – 20" and 6-1/2"

former Jamac
catalog number

HT-21

EMC
part number

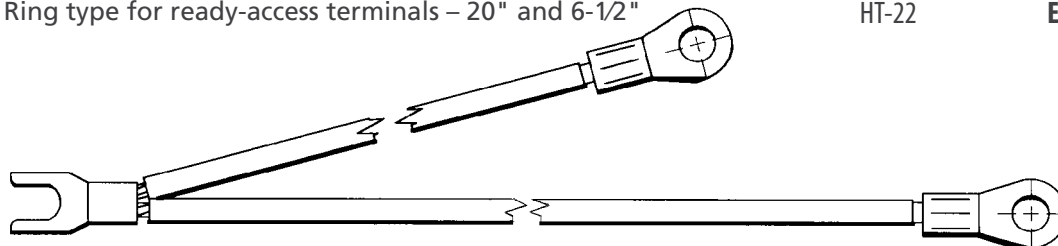
EM-1426.5 2-TFFR



Ring type for ready-access terminals – 20" and 6-1/2"

HT-22

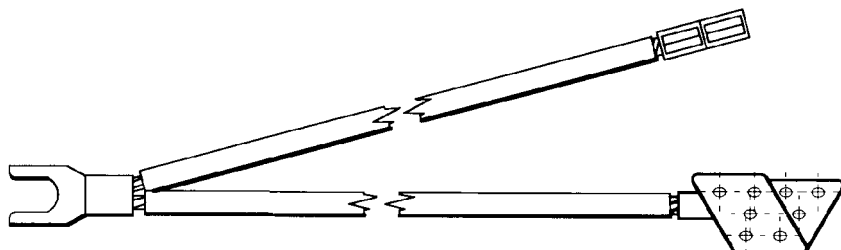
EM-1426.5 2RFR 10 lb/bx



TERMI-FOIL® type for buried wire at station protectors – 3-1/2"

HP-31

EM-143.5-BTFFR 6 lb/bx

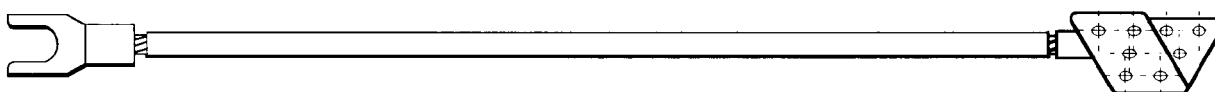


TERMI-FOIL® type buried wire at station protectors employing tab connectors (stranded conductor)

HP-32

HP-33

EM-1403-TFFR (3") 3 lb/bx
EM-1407-TFFR (7") 4.2 lb/bx
EM-1420-TFFR (20")
EM-1007-TFFR (7", #10 AWG)
EM-1018-TFFR (18", #10 AWG)



*TERMI-FOIL® is a registered trademarks used by TE Connectivity Incorporated.

PEDESTAL BONDING CONNECTOR

Ordering Information

EM-1400 (formerly SL-1)

Pedestal Bonding Connector
(90° angle bracket)

Standard packaging: 10/lbg, 100/bx, 7 lb/bx.

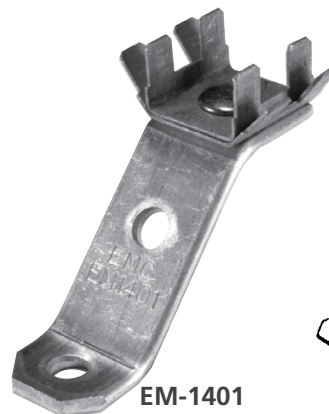
EM-1401 (formerly SL-2)

Pedestal Bonding Connector
(45° angle bracket)

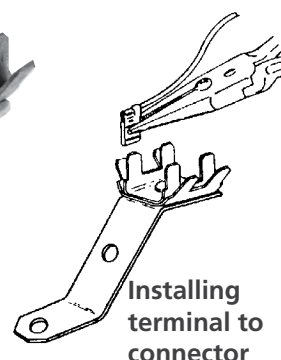
Standard packaging: 10/lbg, 100/bx, 7 lb/bx.



EM-1400



EM-1401



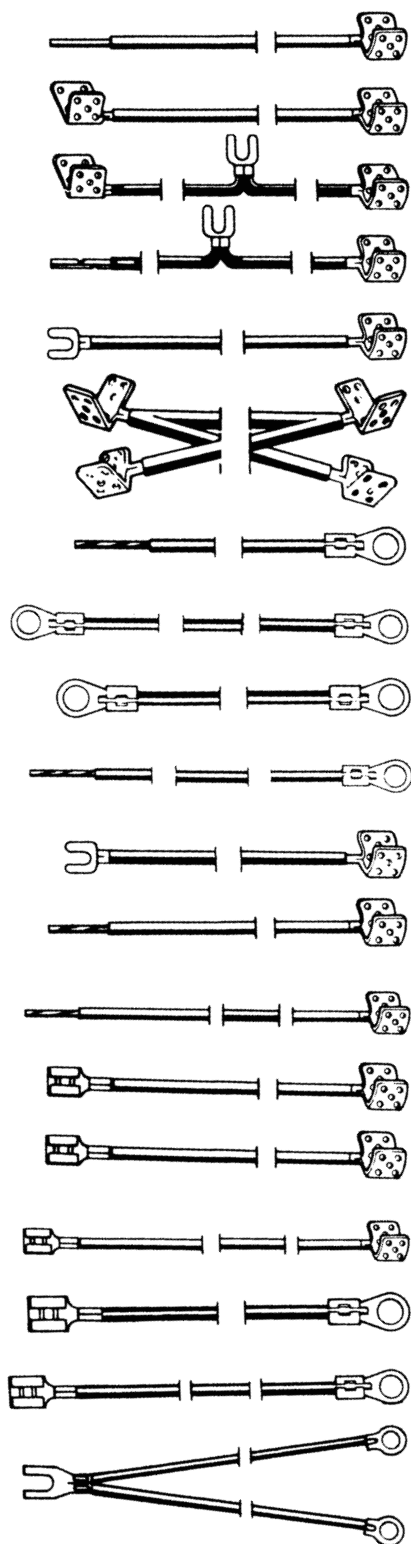
Installing
terminal to
connector

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Bonding & Grounding Straps, Harnesses & Braid

GROUNDING HARNESS CROSS REFERENCE



Harness Length	Siecor/CAC	Siecor	EMC	JAMAC
16-1/2"	GH-1*	27-001-14	EM-GH-1*	
20"	GH-2	27-002-14	EM-1420-TFTF	HS-11
21"/7"	GH-3	27-003-14	EM-1426.52-TFFR	
4"/4"	GH-4	27-004-14	EM-143.5-BTFFR	HP-31
3"	GH-7*	27-007-14	EM-1403-TFFR	HP-32
6"	GH-8	27-009-14	EM-GH-8	
16"	GH-9	27-010-14	EM-GH-9	
20-1/2"	GH-10	27-012-14	EM-1420-RR	HS-14
10"	GH-11	27-013-14	EM-1410-RP	HS-13
36"	GH-12	27-019-14	EM-1436-RP	
7"	GH-13	27-020-14	EM-1407-TFFR	HS-33
15"	GH-14	27-021-14	EM-1415-TFP	
36"	GH-15	27-022-14	EM-1436-TFP	
13"			EM-1413-DSTF	
15"	GH-16	27-023-14	EM-1415-DSTF	
36"	GH-17	27-024-14	EM-GH-17	
15"	GH-18	27-025-14	EM-1415-DSR	
36"	GH-19	27-026-14	EM-GH-19	
21"/21"	GH-20	27-027-14	14 EM-1442-RRFR	

* Indicates solid conductors; all others stranded conductors.

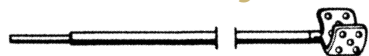
BONDING &
GROUNDING

Bonding & Grounding Straps, Harnesses & Braid

GROUNDING HARNESSSES

EM-GH-1 Grounding Harness

(former Siecor # 27-001-14)

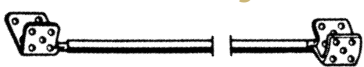


The EM-GH-1 grounding harness is designed to connect and ground the shield of buried cable and service wire to screw-type grounding connectors employed in selected types of buried plant housings. The harness consists of a tinned TERMINAL-FOIL® connector crimped to one end of a green PVC insulated #14 AWG solid tinned copper wire. Overall length is 16-1/2 inches.

Ordering Information **EM-GH-1** Standard packaging: 25 units per bag, shipping weight 12 oz. approx.

EM-GH-2 Grounding Harness

(former Siecor # 27-002-14)



The EM-GH-2 grounding harness is designed to interconnect the shields of spliced cables in butt or inline type closures. The harness consists of a tinned TERMINAL-FOIL® connector crimped to each end of a green PVC insulated #14 AWG stranded tinned copper wire. Overall length is 20 inches.

Ordering Information **EM-GH-2** Standard packaging: 25 units per bag, shipping weight 17 oz. approx.

EM-GH-3 Grounding Harness

(former Siecor # 27-003-14)



The EM-GH-3 grounding harness is designed to interconnect and ground the shields of spliced cables and buried service wire to common grounding studs. The harness consists of two lengths of green PVC insulated #14 AWG stranded tinned copper wire joined together with a tinned spade terminal. A tinned TERMINAL-FOIL® connector is crimped to the opposite end of each wire. Overall length of each wire is 7 and 21 inches respectively.

Ordering Information **EM-GH-3** Standard packaging: 25 units per bag, shipping weight 22 oz. approx.

EM-GH-4 Grounding Harness

(former Siecor # 27-004-14)

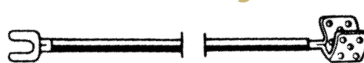


The EM-GH-4 grounding harness is designed to interconnect and ground the shield of buried service wire, with station protector ground wire, to the grounding stud of a station protector. The harness consists of two lengths of green PVC insulated #14 AWG stranded tinned copper wire joined together with a tinned spade terminal. A tinned TERMINAL-FOIL® connector is crimped to the opposite end of one wire, and a tinned butt-splice (ferrule) connector is crimped to the opposite end of the other wire. Overall length of each wire is 4 inches.

Ordering Information **EM-GH-4** Standard packaging: 25 units per bag, shipping weight 9 oz. approx.

EM-GH-7 Grounding Harness

(former Siecor # 27-007-14)



The EM-GH-7 grounding harness is designed to interconnect and ground the shield of buried service wire to the grounding stud of a station protector. The harness consists of a tinned TERMINAL-FOIL® connector, crimped to one end of a green PVC insulated #14 AWG solid tinned copper wire, and a tinned spade terminal, crimped to the opposite end. Overall length is 3 inches.

Ordering Information **EM-GH-7** Standard packaging: 25 units per bag, shipping weight 4 oz. approx.

*TERMI-FOIL® is a registered trademark of TE Connectivity.

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Bonding & Grounding Straps, Harnesses & Braid

GROUNDING HARNESSES (CONTINUED)

EM-GH-8 Grounding Harness

(former Siecor # 27-009-14)

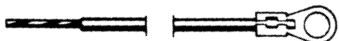


The EM-GH-8 grounding harness is designed to interconnect the shields of double jacketed, double shielded cables in butt or inline type splice closures. The harness consists of four tinned TERMI-FOIL® connectors crimped to three interconnecting lengths of green PVC insulated #14 AWG stranded tinned copper wire. Overall length of each wire is 6 inches.

Ordering Information **EM-GH-8** Standard packaging: 25 units per bag, shipping weight 18 oz. approx.

EM-GH-9 Grounding Harness

(former Siecor # 27-010-14)

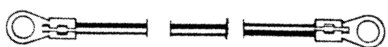


The EM-GH-9 grounding harness is designed to interconnect the ground stud of a shield bonding connector, installed on buried cable, to screw-type grounding connectors employed in selected types of buried plant housings. The harness consists of a tinned ring terminal crimped to one end of a green PVC insulated #14 AWG stranded tinned copper wire. Overall length is 16 inches.

Ordering Information **EM-GH-8** Standard packaging: 25 units per bag, shipping weight 11 oz. approx.

EM-GH-10 Grounding Harness

(former Siecor # 27-012-14)

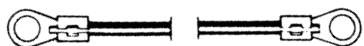


The EM-GH-10 grounding harness is designed to interconnect the ground studs of shield bonding connectors, installed on spliced cables, in butt or inline type splice closures. The harness consists of a tinned ring terminal crimped to each end of a green PVC insulated #14 AWG stranded tinned copper wire. Overall length is 20 inches.

Ordering Information **EM-GH-10** Standard packaging: 25 units per bag, shipping weight 8 oz. approx.

EM-GH-11 Grounding Harness

(former Siecor # 27-013-14)

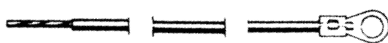


The EM-GH-11 grounding harness is designed to interconnect the ground studs of shield bonding connectors, installed on spliced cables, in butt or inline type splice closures. The harness consists of a tinned ring terminal crimped to each end of a green PVC insulated #14 AWG stranded tinned copper wire. Overall length is 10 inches.

Ordering Information **EM-GH-11** Standard packaging: 25 units per bag, shipping weight 8 oz. approx.

EM-GH-12 Grounding Harness

(former Siecor # 27-019-14)



The EM-GH-12 grounding harness is designed to interconnect the ground stud of a shield bonding connector, installed on buried cable, to screw-type grounding connectors employed in selected types of buried plant housings. The harness consists of a tinned ring terminal crimped to one end of a green PVC insulated #14 AWG stranded tinned copper wire. Overall length is 36 inches.

Ordering Information **EM-GH-12** Standard packaging: 25 units per bag, shipping weight 24 oz. approx.

*TERMI-FOIL® is a registered trademark of TE Connectivity

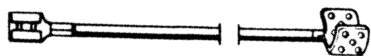
For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

Bonding & Grounding Straps, Harnesses & Braid

GROUNDING HARNESSSES (CONTINUED)

EM-GH-13 Grounding Harness

(former Siecor # 27-020-14)

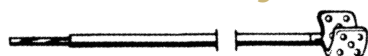


The EM-GH-13 grounding harness is designed to connect and ground the shield of buried service wire to the grounding stud of a station protector. The harness consists of a tinned TERMI-FOIL® connector, crimped to one end of a green PVC insulated #14 AWG stranded tinned copper wire, and a tinned spade terminal, crimped to the opposite end. Overall length is 7 inches.

Ordering Information **EM-GH-1** Standard packaging: 25 units per bag, shipping weight 18 oz. approx.

EM-GH-14 Grounding Harness

(former Siecor # 27-021-14)

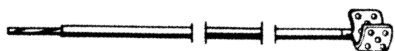


The EM-GH-14 grounding harness is designed to connect and ground the shield of buried cable and service wire to screw-type grounding connectors employed in selected types of buried plant housings. The harness consists of a tinned TERMI-FOIL® connector crimped to one end of a green PVC insulated #14 AWG stranded tinned copper wire. Overall length is 15 inches.

Ordering Information **EM-GH-2** Standard packaging: 25 units per bag, shipping weight 12 oz. approx.

EM-GH-15 Grounding Harness

(former Siecor # 27-022-14)

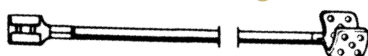


The EM-GH-15 grounding harness is designed to connect and ground the shield of buried cable and service wire to screw-type grounding connectors employed in selected types of buried plant housings. The harness consists of a tinned TERMI-FOIL® connector crimped to one end of a green PVC insulated #14 AWG stranded tinned copper wire. Overall length is 36 inches.

Ordering Information **EM-GH-3** Standard packaging: 25 units per bag, shipping weight 25 oz. approx.

EM-GH-16 Grounding Harness

(former Siecor # 27-023-14)

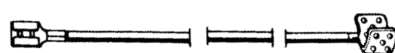


The EM-GH-16 grounding harness is designed to connect and ground the shield of buried service wire to the spring action type grounding contacts employed in buried plant housings. The harness consists of a tinned TERMI-FOIL® connector, crimped to one end of a green PVC insulated #14 AWG stranded tinned copper wire, and a tinned spring action contact, crimped to the opposite end. Overall length is 15 inches.

Ordering Information **EM-GH-4** Standard packaging: 25 units per bag, shipping weight 12 oz. approx.

EM-GH-17 Grounding Harness

(former Siecor # 27-024-14)



The EM-GH-17 grounding harness is designed to connect and ground the shield of buried service wire to the spring action type grounding contacts employed in buried plant housings. The harness consists of a tinned TERMI-FOIL® connector, crimped to one end of a green PVC insulated #14 AWG stranded tinned copper wire, and a tinned spring action contact, crimped to the opposite end. Overall length is 36 inches.

Ordering Information **EM-GH-7** Standard packaging: 25 units per bag, shipping weight 26 oz. approx.

*TERMI-FOIL® is a registered trademark of TE Connectivity.

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

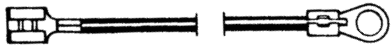


Bonding & Grounding Straps, Harnesses & Braid

GROUNDING HARNESSSES (CONTINUED)

EM-GH-18 Grounding Harness

(former Siecor # 27-025-14)

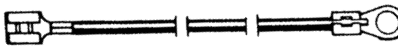


The EM-GH-18 grounding harness is designed to interconnect the ground stud of a shield bonding connector, installed on buried cable, to the spring action type grounding contacts employed in buried plant housings. The harness consists of a tinned ring terminal, crimped to one end of a green PVC insulated #14 AWG stranded tinned copper wire, and a tinned spring action contact, crimped to the opposite end. Overall length is 15 inches.

Ordering Information **EM-GH-18** Standard packaging: 25 units per bag, shipping weight 12 oz. approx.

EM-GH-19 Grounding Harness

(former Siecor # 27-026-14)

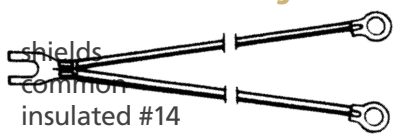


The EM-GH-19 grounding harness is designed to interconnect the ground stud of a shield bonding connector, installed on buried cable, to the spring action type grounding contacts employed in buried plant housings. The harness consists of a tinned ring terminal, crimped to one end of a green PVC insulated #14 AWG stranded tinned copper wire, and a tinned spring action contact, crimped to the opposite end. Overall length is 36 inches.

Ordering Information **EM-GH-19** Standard packaging: 25 units per bag, shipping weight 24 oz. approx.

EM-GH-20 Grounding Harness

(former Siecor # 27-027-14)

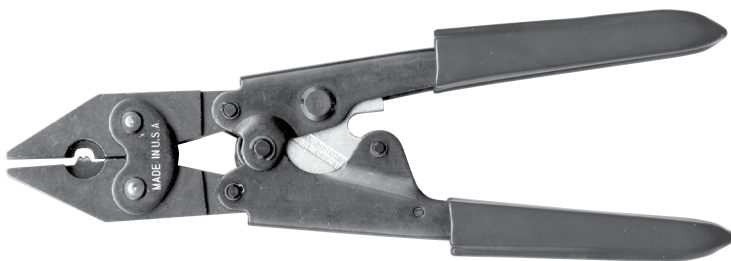


The EM-GH-20 grounding harness is designed to interconnect and ground the shields of spliced cables, employing shield bonding connectors with studs, to common grounding studs. The harness consists of two lengths of green PVC insulated #14 AWG stranded tinned copper wire, joined together with a tinned spade terminal. A tinned ring terminal is crimped to the opposite end of each wire. Overall length of each wire is 21 inches.

Ordering Information **EM-GH-20** Standard packaging: 25 units per bag, shipping weight 2 lb. approx.

EM-GHT-1 Compression Tool

(former Siecor # 27-001-15)



The EM-GHT-1 compression tool is designed to insure a high degree of reliability in making the ground harness to shield bond for harnesses employing TERMI-FOIL® type connectors. The EM-GHT-1 is equipped with a special ratchet which controls, and assures, correct pressure at the shield bond before the tool will release.

Ordering Information **EM-GHT-1** Standard packaging: one tool per box, shipping weight 21 oz. approx.

*TERMI-FOIL® is a registered trademark of TE Connectivity.

Bonding & Grounding Straps, Harnesses & Braid

HAND-HELD CRIMP TOOL

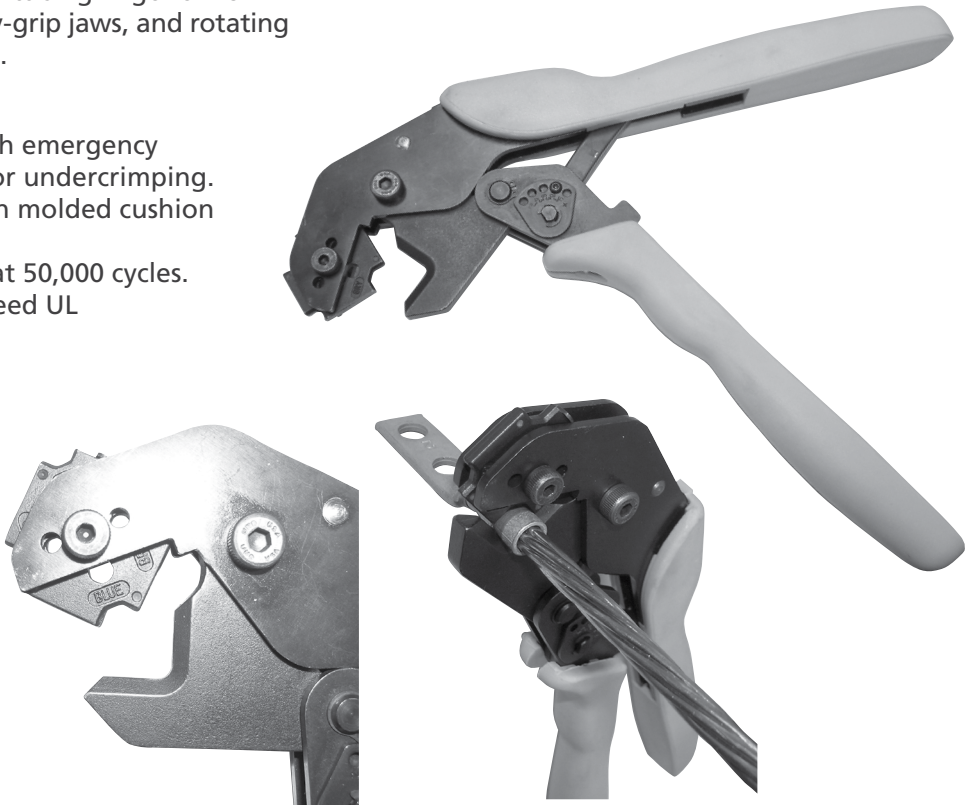
#8–#2 AWG conductor range covers red, blue, grey, and brown compression lugs that are made from tubing. Ergonomic design features cushioned grips, easy-grip jaws, and rotating tool nest. Manufactured in the U.S.A.

FEATURES

- Positive ratcheting assembly with emergency release, prevents overcrimping or undercrimping.
- High mechanical advantage with molded cushion grips minimize user fatigue.
- Tool life is conservatively rated at 50,000 cycles.
- Crimps designed to meet or exceed UL tensile requirements.

Ordering Information
EM-4290CT –
Hand-Held Crimp Tool,
#8–#2 AWG

Die Index Number	Gage Die (In.) Min. - Max.		Wire Size
Red	.178	.200	8
Blue	.220	.238	6
Gry	.265	.275	4
Brn	.325	.347	2



CRIMP TOOL

For crimping #8–1/0 AWG crimp lugs and splices. Rotating crimp dies are color coded for easy identification and selection. Long handles and compound lever action provide superb mechanical advantage and positive stop at the end of the crimp cycle.

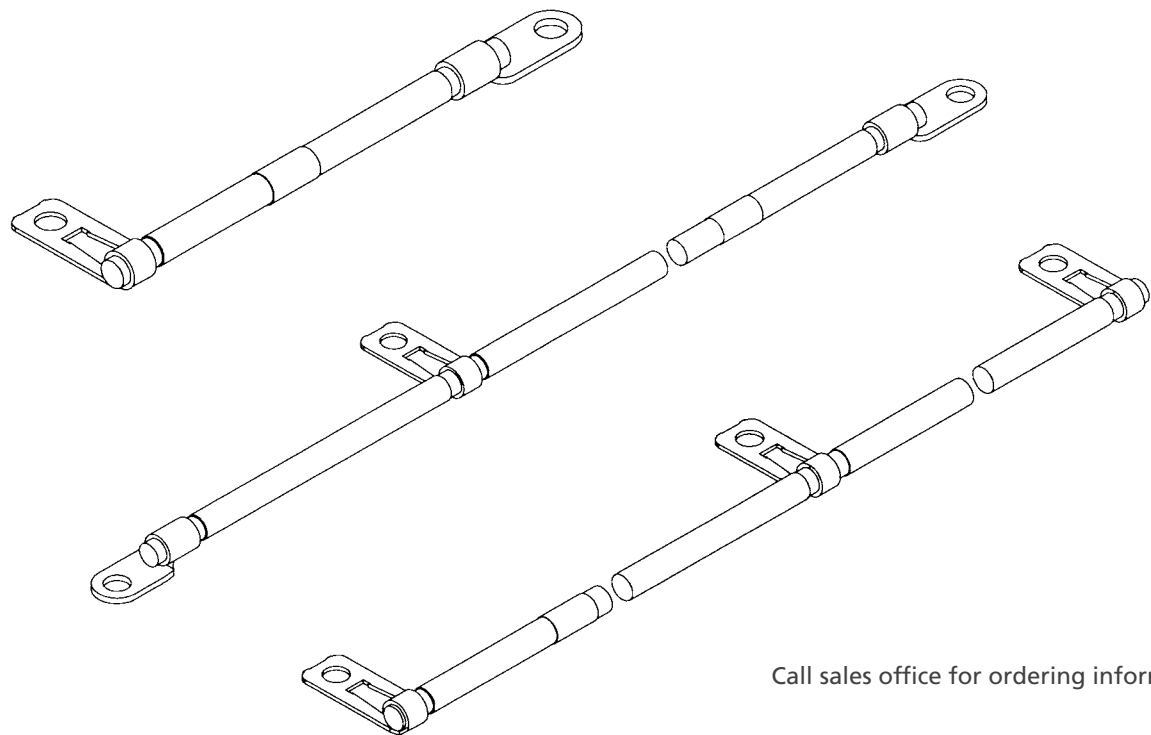
Ordering Information
EM-080CT
Standard packaging:
1 / bx, 9 lb / bx



Bonding & Grounding Straps, Harnesses & Braid

#6 AWG HARNESSES WITH FLAG TERMINALS

Insulated rope-lay, various lengths available, various combinations of flag/ring terminals available.



Call sales office for ordering information.

BONDING &
GROUNDING





Connectors



Connectors – Pedestal Ground Brackets

PEDESTAL GROUND BRACKETS

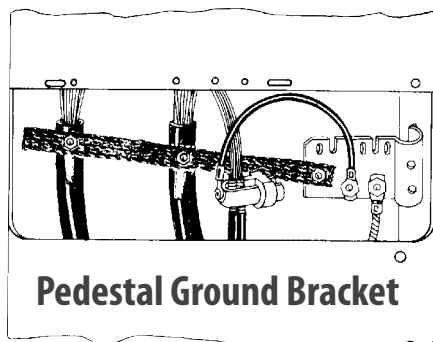
All stainless steel. Studs are pressed in and staked.

APPLICATIONS

New installations and rehabilitation of pedestal grounds to accept new #6 AWG bonding harnesses or braid.

FEATURES

- Includes hardware to connect bonding harnesses or ground braid
- Slots and holes can mount standard BSW shield connectors.



Ordering Information

EM-6300-01 – Studs protrude away from angle

Standard packaging: 200/bx, 25 lb/bx

EM-6300-02 – Studs protrude toward angle

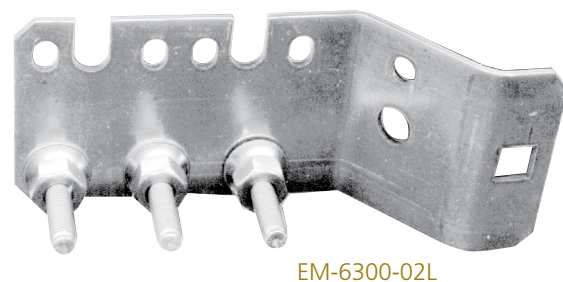
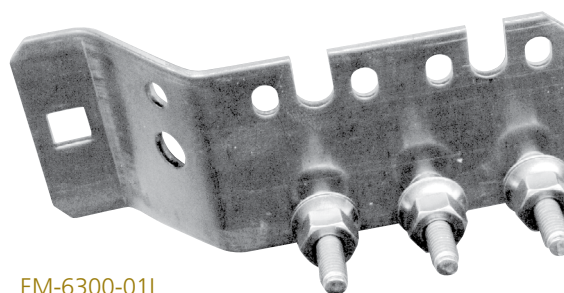
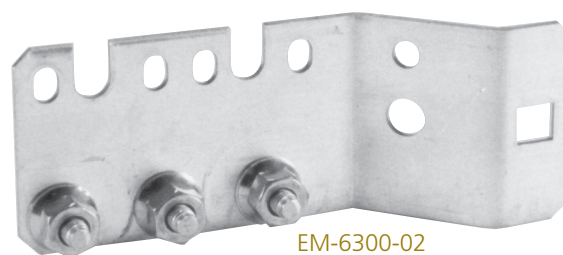
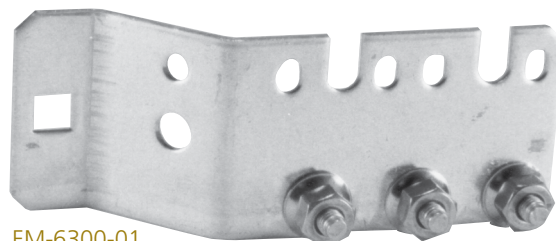
Standard packaging: 200/bx, 25 lb/bx

Add suffix **-TC** for a tinned copper bracket.

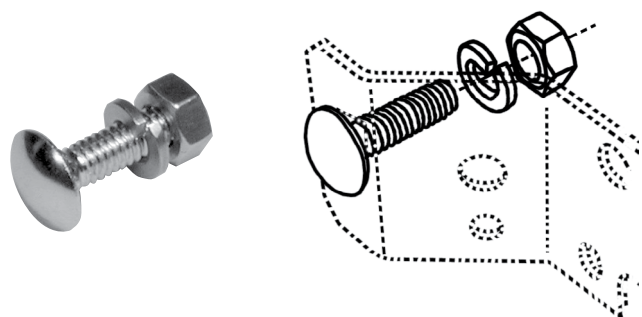
Add suffix **-TB** for a tinned brass bracket.

Add suffix **-L** for longer studs.

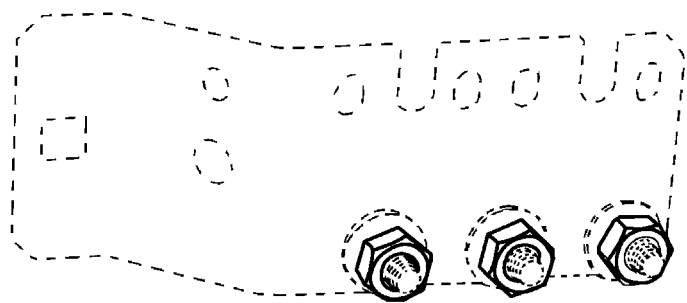
Add suffix **-NBL** to include nut, bolt, and lock washer (opposite page, EM-63NBL).



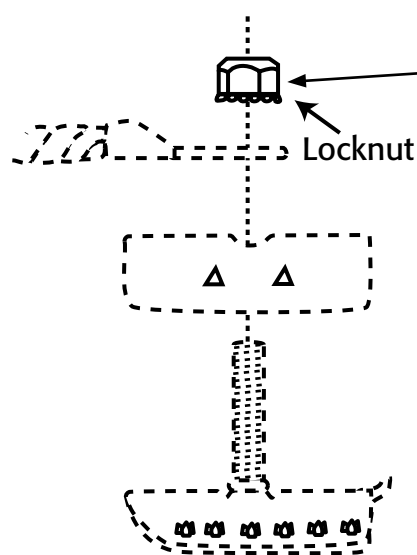
Connectors



EM-63NBL – Stainless steel nut, carriage bolt, and lock washer used to attach pedestal ground brackets to pedestal. See page G36.

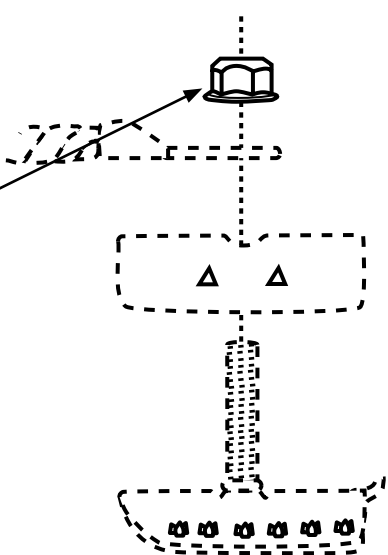


EM-63NUT – Stainless steel conical Keps nut. See page G36.



EM-BNUT
10–24 coarse thread tinned bronze locknut for B-bond clamp cable shield connector. See pages G104 and G105.

EM-10NBC
10–32 fine thread whiz nut, zinc-plated steel, for B-bond clamp cable shield connector. See pages G104 and G105.



BONDING &
GROUNDING



Connectors – Pedestal Ground Brackets

PEDESTAL GROUND BRACKET STUD EXTENDER

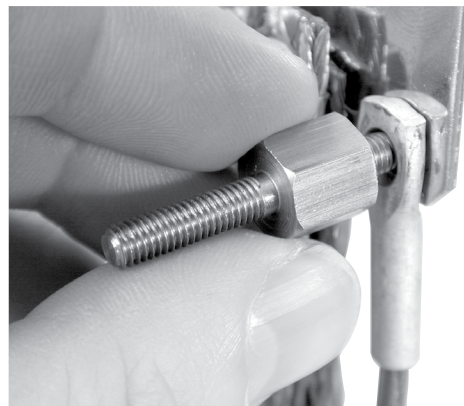
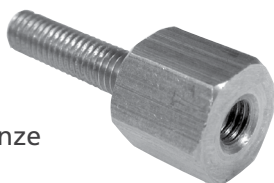
This can be used when the existing ground bracket studs are full. Simply remove the existing nut, thread on the stud extender (see picture, right). This gives 3/4" additional stud length. The nut that was removed is now used to capture the bonds on the stud extender.

Ordering Information

EM-63MG-SS – Stainless steel

EM-63MG-TB – Tinned brass

EM-63MG-TSB – Tinned silicon bronze

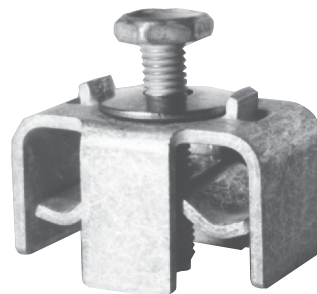


"C" SERVICE WIRE CLAMP

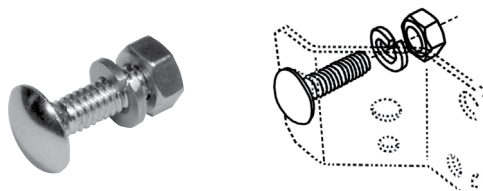
Buried service wire connector for pedestal applications. Attaches to the ground brackets on opposite page.

Ordering Information **EM-6250**

Standard packaging: 10/lbg, 100/bx, 7 lb/bx.

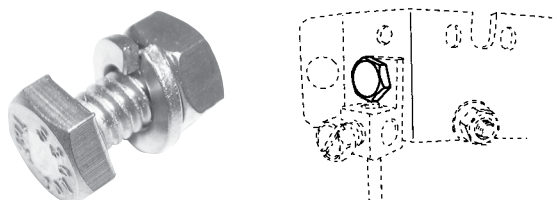


HARDWARE



Stainless steel nut, carriage bolt, and lock washer used to attach pedestal ground brackets (opposite page) to pedestal.

Ordering Information **EM-63NBL**



1/4-20 x 1/2 hex head cap screw with nut and lockwasher, for attaching cast ground lug to ground bracket.

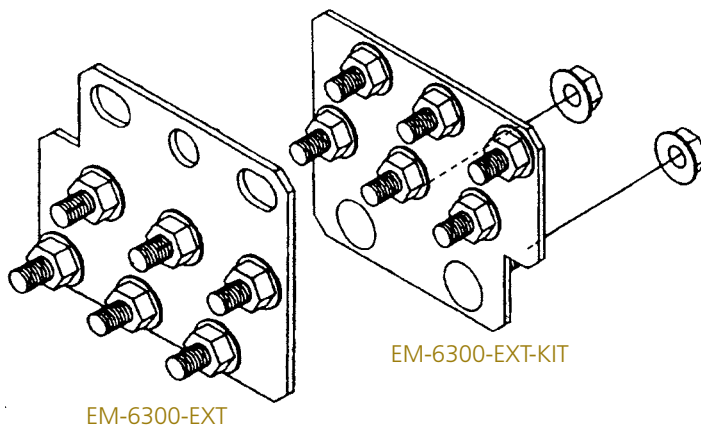
Ordering Information

EM-63SS – Stainless steel

EM-63BR – Brass/bronze

EM-63TBR – Tinned brass bronze

PEDESTAL GROUND BRACKET EXTENDERS



Ordering Information

EM-6300-EXT – Stainless steel plate with 6 short studs staked into it; also 6 Keps nuts.

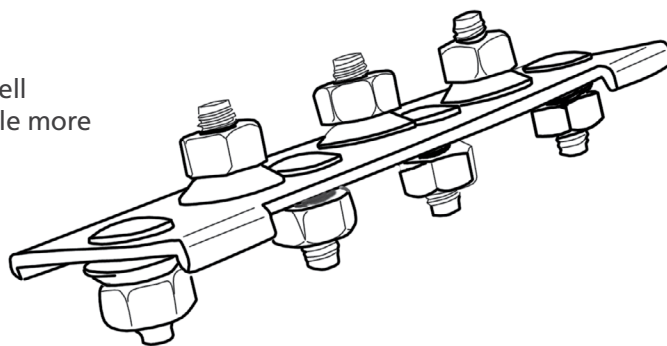
EM-6300-EXT-KIT – Stainless steel plate with 6 short studs staked into it, and 2 extra mounting studs; also 8 Keps nuts.

Add suffix **-TC** for a tinned copper bracket extender (studs and nuts still stainless steel).

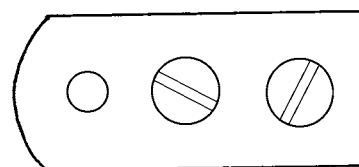
Connectors – Pedestal Ground Brackets

PEDESTAL GROUND BAR EXTENDER FOR CHANNELL MAH PEDESTALS

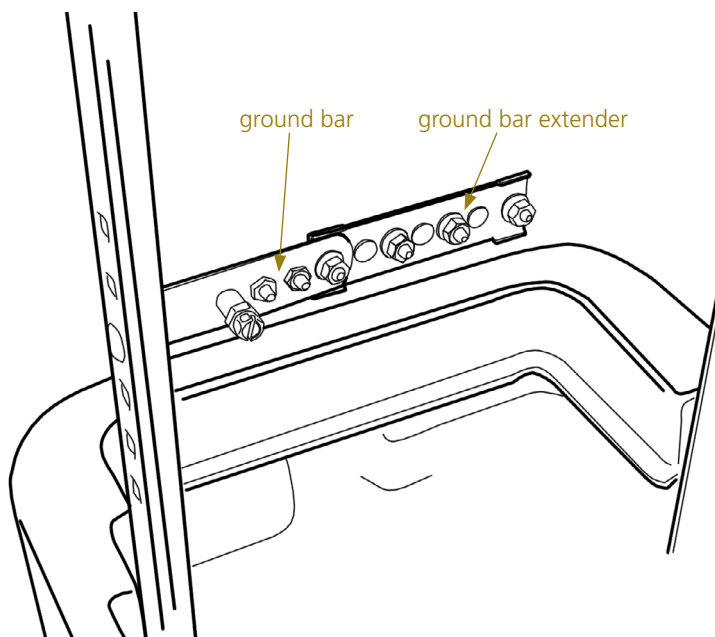
The Ground Bar Extender EM-6305 is to be used in Channell pedestals to increase the capacity of the pedestal to handle more buried service wires and cables.



The existing Channell ground bar has a single hole in the end. Mount one of the end studs in that hole, and the ground bar extension gives the installer three more studs for BSW floating bond shield connectors (SSI/PID # 700244330) on the BSW side. The opposite side will provide three additional studs to connect cable shield flexible bond straps SSI/PID # 001460997.



*Shown: EM-6305
used in MAH1010*



Ordering Information

EM-6305 – Pedestal Ground Bar Extender (6 extra studs).

EM-6308 – Pedestal Ground Bar Extender (14 extra studs).

Connectors – Screw-on Terminals

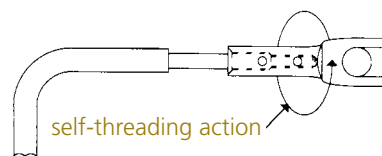
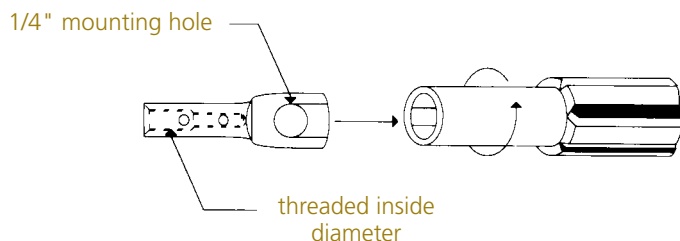
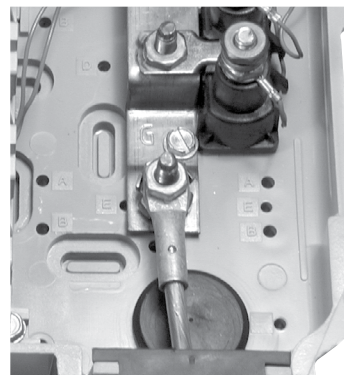


SCREW-ON TERMINALS












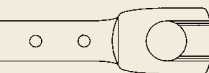



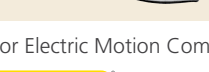



Tin-plated copper connector with internal self-cutting threads, for terminating solid wires at connecting points. These small terminals are applied with a can wrench. They cut their own thread on solid #6 or #10 AWG copper ground wire.

FEATURES

- Installs with a standard (3/8") terminal wrench
- Self-threading terminal cuts through any oxidation
- Threaded connection will not vibrate loose
- 1/4" hole fits #10 through 1/4" studs
- Tin plated for corrosion resistance
- Copper alloy construction



Ordering Information :

	EM-2525	Screw-on ring terminal for solid #6 AWG. Standard packaging: 10/bg, 100/sm bx, 1000/lg bx, 2 lb/sm bx.	
	EM-2525.10	Same as above, with #10 mounting hole.	
	EM-2525.375	Same as above, with 3/8" diameter ring terminal.	
	EM-2525T.3125	Screw-on ring terminal for solid #6 AWG, with thin blade and 5/16" diameter hole. Standard packaging: 10/bg, 100/sm bx, 1000/lg bx, 2 lb/sm bx.	
	EM-2510	Screw-on ring terminal for solid #10 AWG. Standard packaging: 10/bg, 100/sm bx, 1000/lg bx, 2 lb/sm bx.	
	EM-2510.10	Same as above, with #10 stud mounting hole.	
	EM-2510SI	Screw-on ring terminal for solid #10 AWG. Standard packaging: 10/bg, 100/sm bx, 1000/lg bx, 2 lb/sm bx.	
	EM-2610	Combination screw-on ring terminal for either #6 or #10 AWG. Standard packaging: 10/bg, 100/sm bx, 1000/lg bx, 16 lb/lg bx.	
	EM-2610.375	Same as above, 3/8" diameter hole.	
	EM-2610.375THIN	Same as above, with thin blade and 3/8" diameter hole. Standard packaging: 10/bg, 100/sm bx, 1000/lg bx, 2 lb/sm bx.	
	EM-2610BS	Combination screw-on terminal #6 and #10 AWG with break-away into spade. Standard packaging: 10/bg, 100/sm bx, 1000/lg bx, 2.3 lb/sm bx.	
	EM-2610BH	Combination screw-on terminal #6 and #10 AWG with break-away into hook. Standard packaging: 10/bg, 100/sm bx, 1000/lg bx, 2 lb/sm bx.	
	EM-2610T.3125	Combination screw-on terminal #6 and #10 AWG, with thin blade and 5/16" diameter hole. Standard packaging: 10/bg, 100/sm bx, 1000/lg bx, 2 lb/sm bx.	

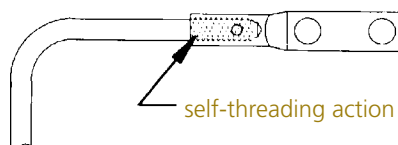
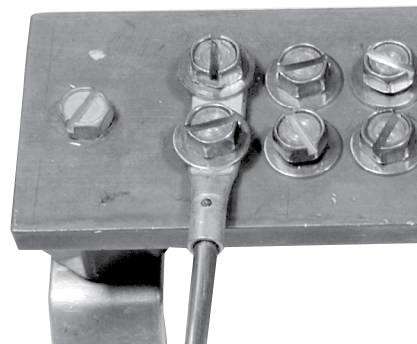
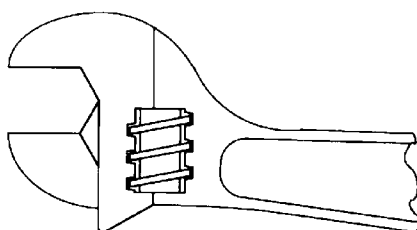
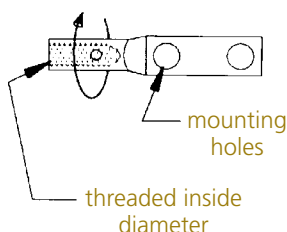
For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Connectors – Screw-on Terminals

LARGER SCREW-ON TERMINALS

These larger and double-hole terminals are applied with an adjustable wrench. They cut their own thread on solid #2, #4, and #6 copper ground wire.



Ordering Information :



EM-2522SH

Screw-on ring terminal, single 5/16" hole, for solid #2 AWG.
Standard packaging: 10/lbg, 50/sm bx, 500/lbg bx, 21.8 lb/lbg bx



EM-2522DH.75.10

Screw-on ring terminal, double #10 holes, 3/4" spacings, for solid #2 AWG.



EM-2522DH1.000

Screw-on ring terminal, double 5/16" holes, 1" spacings, for solid #2 AWG.



EM-2522DH1.750

Screw-on ring terminal, double 5/16" holes, 1-3/4" spacings, for solid #2 AWG.



EM-2522DH.625

Screw-on ring terminal, double 5/16" holes, 5/8" spacings, for solid #2 AWG.
Standard packaging: 5/lbg, 50/sm bx, 500/lbg bx, 33 lb/lbg bx



EM-2522DH.75.312

Screw-on ring terminal, double 5/16" holes, 3/4" spacings, for solid #2 AWG.
Standard packaging: 5/lbg, 50/sm bx, 500/lbg bx, 33 lb/lbg bx

BONDING & GROUNDING


For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Connectors – Screw-on Terminals

LARGER SCREW-ON TERMINALS (CONTINUED)



EM-2522DH.875 Screw-on ring terminal, double 5/16" holes, 7/8" spacings, for solid #2 AWG. 
Standard packaging: 5/lbg, 50/sm bx, 500/lbg bx, 33 lb/lbg bx



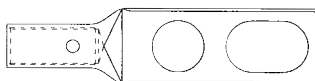
EM-2522DH.875.625 Screw-on ring terminal, 5/16" hole and 5/16" slot, for solid #2 AWG, fits studs spaced 5/8"–7/8".
Standard packaging: 5/lbg, 50/sm bx, 500/lbg bx, 44 lb/lbg bx



EM-2522DH.625.437 Screw-on ring terminal, double 7/16" holes, 5/8" spacing, for solid #2 AWG.




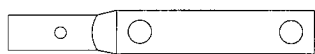
EM-2522DH1.000.437 Screw-on ring terminal, double 7/16" holes, 1" spacing, for solid #2 AWG.




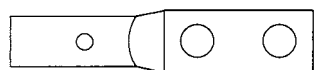
EM-2522DH.875-.625.437 Screw-on ring terminal, 7/16" hole and 7/16" slot, for solid #2 AWG, fits studs spaced 5/8"–7/8".




EM-2524SH Screw-on ring terminal, single 1/4" hole, for solid #4 AWG. 
Standard packaging: 10/lbg, 50/sm bx, 500/lbg bx, 22 lb/lbg bx




EM-2524DH1.750 Screw-on ring terminal, double 1/4" holes, 13/4" spacings, for solid #4 AWG. 



EM-2524DH.625 Screw-on ring terminal, double 1/4" holes, 5/8" spacings, for solid #4 AWG. 



EM-2525DH.625 Screw-on ring terminal, double 1/4" holes, 5/8" spacings, for solid #6 AWG (can also be applied with can wrench). 
Standard packaging: 10/lbg, 50/sm bx, 500/lbg bx, 13 lb/lbg bx



EM-2526 Screw-on terminal, 5/8" spade, for solid #6 AWG.
Standard packaging: 10/lbg, 50/sm bx, 500/lbg box, 38.4 lb/lbg bx



EM-2627R Screw-on ring terminal, 3/8" mounting hole, for solid #6 AWG.

Please see next page for at-a-glance comparison of all screw-on terminals.

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Connectors – Screw-on Terminals

ALL SCREW-ON TERMINALS (CONTINUED)

At a glance . . .

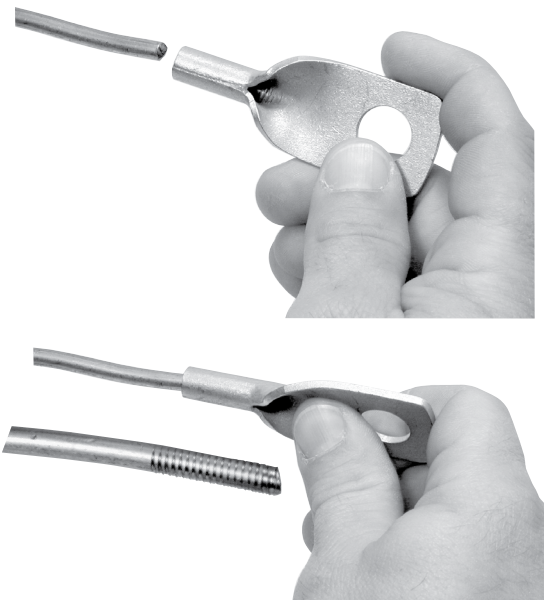
PART NUMBER	ACCOMMODATES	MOUNTING HOLE(S)	SPACING	LISTING
EM-2525	#6 AWG	1/4"		
EM-2525.10	#6 AWG	#10		
EM-2525.375	#6 AWG	3/8"		
EM-2525T.3125	#6 AWG	5/16", thin blade		
EM-2510	#10 AWG	1/4"		
EM-2510.10	#10 AWG	#10		
EM-2510SI	#10 AWG	1/4", insulated barrel		
EM-2610	#6 & #10 AWG	1/4"		
EM-2610.375	#6 & #10 AWG	3/8"		
EM-2610BS	#6 & #10 AWG	1/4", breakaway into spade		
EM-2610BH	#6 & #10 AWG	1/4", breakaway into hook		
EM-2610T.3125	#6 & #10 AWG	5/16", thin blade		
EM-2522SH	#2 AWG	5/16"		
EM-2522DH.75.10	#2 AWG	double #10	3/4"	
EM-2522DH1.000	#2 AWG	double 5/16"	1"	
EM-2522DH.875-.625.437	#2 AWG	7/16" hole, 7/16" slot	5/8"–7/8"	
EM-2522DH1.750	#2 AWG	double 5/16"	1-3/4"	
EM-2522DH.625	#2 AWG	double 5/16"	5/8"	
EM-2522DH.75.312	#2 AWG	double 5/16"	3/4"	
EM-2522DH.875	#2 AWG	double 5/16"	7/8"	
EM-2522DH.875.625	#2 AWG	5/16" hole, 5/16" slot	5/8"–7/8"	
EM-2522DH.625.437	#2 AWG	7/16"	5/8"	
EM-2522DH1.000.437	#2 AWG	7/16"	1"	
EM-2524SH	#4 AWG	1/4"		
EM-2524DH1.750	#4 AWG	double 1/4"	1-3/4"	
EM-2524DH.625	#4 AWG	double 1/4"	5/8"	
EM-2525DH.625	#6 AWG	double 1/4"	5/8"	
EM-2526	#6 AWG	5/8" spade		
EM-2627R	#6 AWG	3/8"		

BONDING &
GROUNDING

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

Connectors – Self-Tapping Terminals

LARGER-HOLED SELF-TAPPING TERMINALS



Screw-on terminals cut their own thread on solid copper ground wire.

Ordering Information:

EM-250 -

Gauge:
2, 4, or 6

Size/shape:
A, B, or C (see
pictures, above left)

Mounting hole size:
insert fraction, (e.g.,
EM-2506B.5/16 has a
5/16" mounting hole).

Note: Size B will accommodate a mounting
hole up to 5/8".



For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Connectors

GROUND WIRE CONNECTOR

Inline connector with breakaway hex heads. Available for #6 or #10 AWG solid.

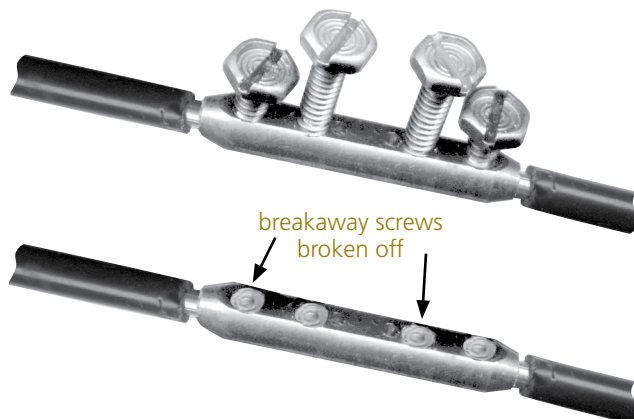
Ordering information

EM-4544 Accommodates #6 AWG

EM-4542 Accommodates #10 AWG

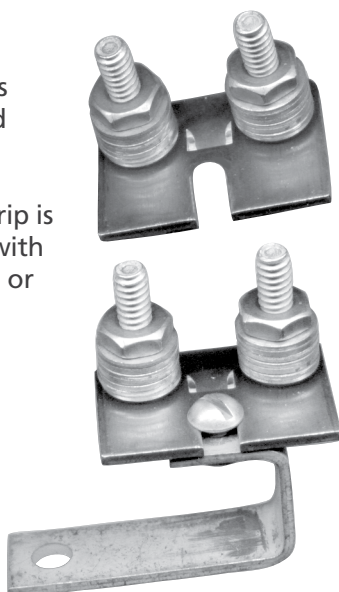
EM-4542-1010 Accommodates three #10 AWG

Standard packaging: 2/lbg, 50/lbx, 5 lb/lbx.



GROUND STRIPS

A plate equipped with two binding posts and washers. The plate has a "U"-shaped slot to receive the mounting screw and a depressed tab which serves to prevent turning after installation. The Ground Strip is intended for use in terminals equipped with G type or H type binding post chambers, or LA type or LB type fuse chambers.



Ordering Information

EM-2A Ground Strip

Standard packaging: 100/lbx, 7 lb/lbx.



EM-2B Ground Strip with Bracket added

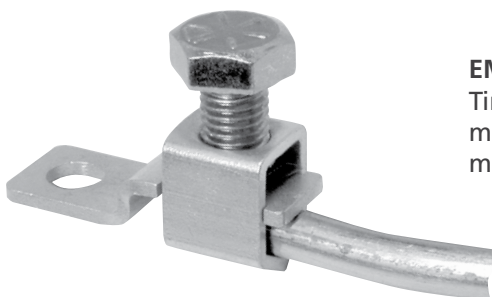
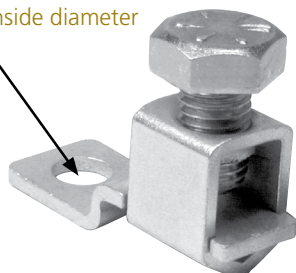
Standard packaging: 100/lbx, 9 lb/lbx.

Connectors – Ground Lugs

SOLDERLESS GROUND LUGS

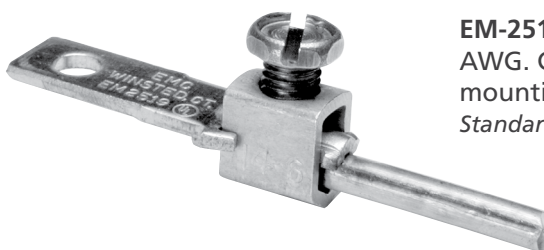
Ordering Information required.

1/4" inside diameter



EM-2513 – Fits #14–#4 AWG. Tin-plated copper housing and mounting tang. 1/4" mounting hole.

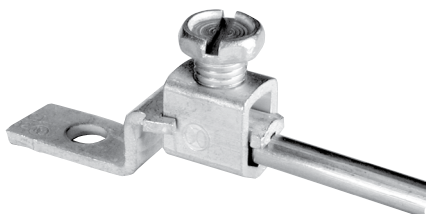
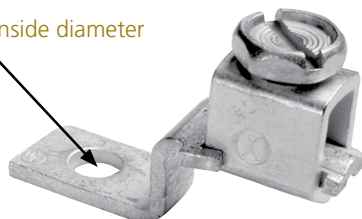
3/16" inside diameter



EM-2519-01 – Fits solid #10–#6 AWG. Copper housing and mounting tang. Standard packaging: 1000/bx, 25 lb/bx

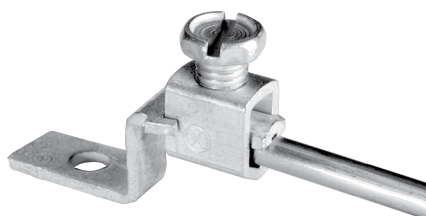
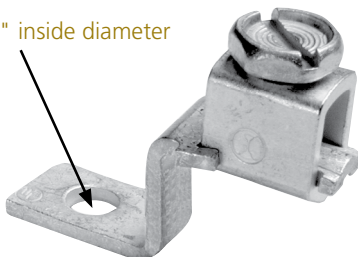


3/16" inside diameter



EM-2519-03 – Fits #12–#6 AWG, 90° bend in mounting tang. Copper housing, tin-plated copper mounting tang.

3/16" inside diameter



EM-2519-04 – Fits #12–#6 AWG, 90° bend in mounting tang. Copper housing, tin-plated copper mounting tang.

At a glance ...

PART NUMBER	ACCOMMODATES	MOUNTING TANG LENGTH/ANGLE/HT.	MOUNTING HOLE DIA./ SPACING	SCREW	LISTING
EM-2513	#14–4	1" / 90° bend / 1/4"	1/4"	1/2" hex head	none
EM-2519-01	solid #10–6	1" / straight	3/16"	3/8" hex head	UL
EM-2519-03	#12–6	3/4" / 90° bend / 1/2"	3/16"	3/8" hex head	none
EM-2519-04	#12–6	3/4" / 90° bend / 7/8"	3/16"	3/8" hex head	none

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

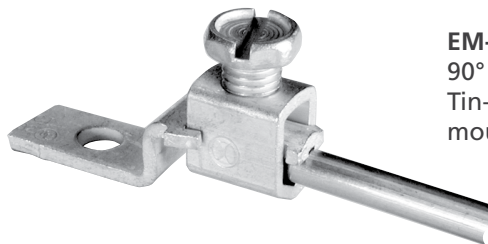


Connectors – Ground Lugs

SOLDERLESS GROUND LUGS (CONTINUED)

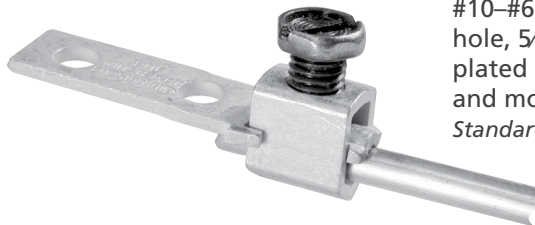
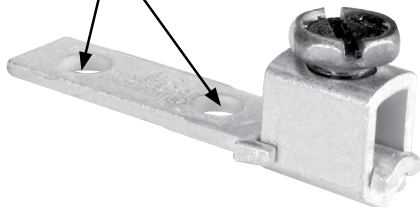
Ordering Information required.

3/16" inside diameter



EM-2519-05 – Fits #12–#6 AWG, 90° bend in mounting tang. Tin-plated copper housing and mounting tang.

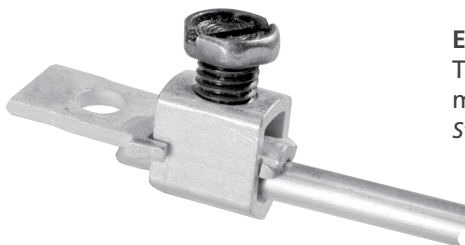
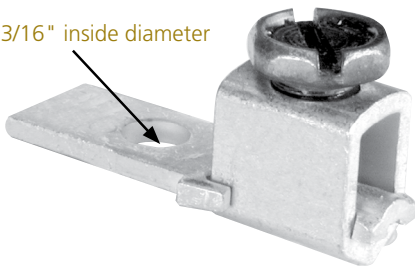
3/16" inside diameter



EM-2519DHT-01 – Fits #10–#6 AWG, double hole, 5/8" spacing. Tin-plated copper housing and mounting tang.
Standard packaging: 1000/bx, 28 lb/bx

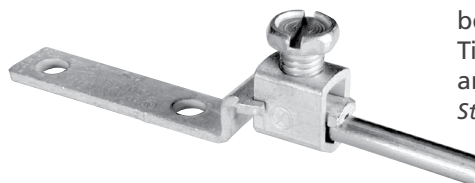


3/16" inside diameter



EM-2519HT – Fits #12–#6 AWG. Tin-plated copper housing and mounting tang.
Standard packaging: 1000/bx, 28 lb/bx

3/16" inside diameter



EM-2519DHT-02 – Fits #10–#6 AWG, double hole, 1" spacing, offset bend in mounting tang. Tin-plated copper housing and mounting tang.
Standard packaging: 500/bx, 19 lb/bx



PART NUMBER At a glance ...	ACCOMMODATES	MOUNTING TANG LENGTH/ANGLE/HT.	MOUNTING HOLE DIA./ SPACING	SCREW	LISTING
EM-2519-05	#12–6	5/8" / 90° bend / 3/8"	3/16"	3/8" hex head	none
EM-2519DHT-01	#10–6	1-3/16" / straight	3/16" / 5/8"	3/8" hex head	UL
EM-2519HT	#12–6	1/2" / straight	3/16"	3/8" hex head	none
EM-2519DHT-02	#10–6	1-1/2" / 90° bend / 3/8"	3/16" / 1"	3/8" hex head	UL

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

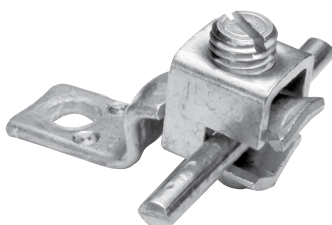
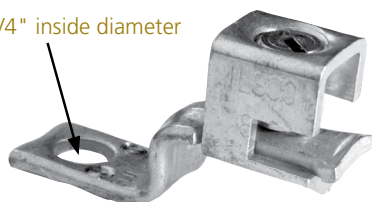


Connectors – Ground Lugs

SOLDERLESS GROUND LUGS (CONTINUED)

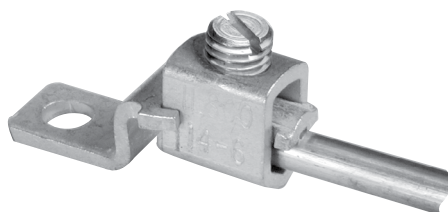
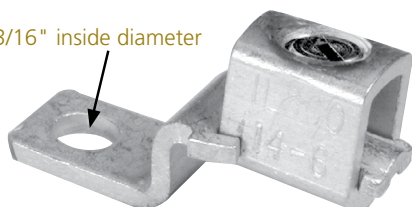
Ordering Information required.

1/4" inside diameter



EM-2518 – Fits solid #6 AWG at right angle. Copper housing and mounting tang.
Standard packaging: 100/bx, 6 lb/bx
Add suffix **-NBL** for nut, bolt, and lockwasher, to attach to a pedestal grounding bracket.

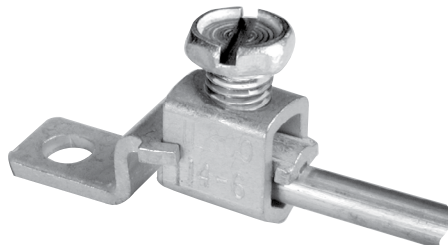
3/16" inside diameter



EM-2519-06 – Fits solid #10–#6 AWG, offset bend in mounting tang. Tin-plated copper housing and mounting tang.

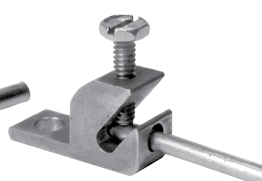
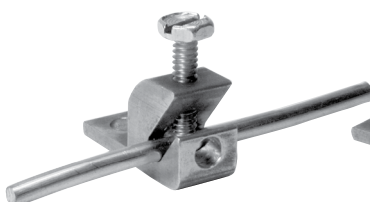
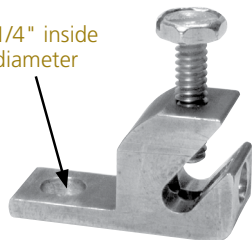


3/16" inside diameter



EM-2519-06HH – Fits solid #12–#6 AWG, offset bend in mounting tang. Tin-plated copper housing and mounting tang.

1/4" inside diameter



EM-2512 – Extruded connector fits solid and stranded #6 AWG. Wire can be connected in either direction.
EM-2512T – EM-2512, with tin-plated copper body and tin-plated screw.

At a glance . . .

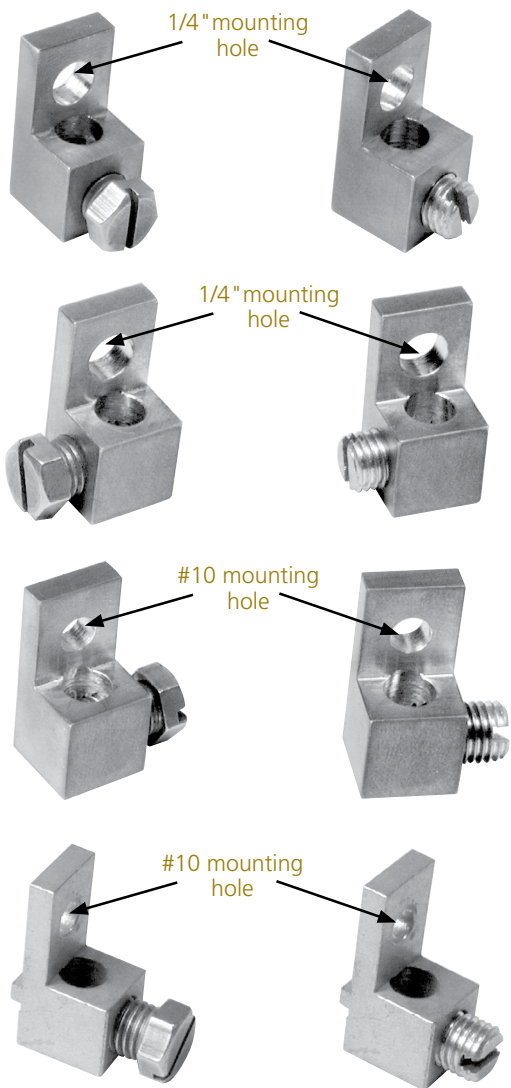
PART NUMBER	ACCOMMODATES	MOUNTING TANG LENGTH/ANGLE/HT.	MOUNTING HOLE DIA./ SPACING	SCREW	LISTING
EM-2518	solid #6	5/8" / 90° bend / 3/8"	3/16"	9/32" slotted	none
EM-2519-06	#10–6	1/2" / 90° bend / 3/8"	3/16"	9/32" slotted	UL
EM-2519-06HH	#12–6	1/2" / 90° bend / 3/8"	3/16"	3/8" hex head	none
EM-2512	solid/stranded #6	3/4" / straight	1/4"	3/8" hex head	none
EM-2512T	solid/stranded #6	3/4" / straight	1/4"	3/8" hex head	none

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Connectors – Ground Lugs

L-SHAPED GROUND LUGS



L-shaped ground lugs accommodate ground wires from #14–6 AWG. 3/8" hex head bolts fit standard 216B tool. All lugs are available with either 1/4" or #10 size mounting hole.



Ordering information

EM-6620 L-shaped ground lug with hex head bolt in front

EM-6621 L-shaped ground lug with headless set screw in front

1/4" mounting hole is standard on these two products. For #10 size hole, please add suffix .10.

EM-6622 L-shaped ground lug with hex head bolt on left.

EM-6622HL L-shaped ground lug with headless set screw on left

1/4" mounting hole is standard on these two products. For #10 size hole, please add suffix .10.

EM-6624 L-shaped ground lug with hex head bolt on right

EM-6625 L-shaped ground lug with headless set screw on right

#10 size mounting hole is standard on these two products. For 1/4" hole, please add suffix .25.

EM-6626 L-shaped ground lug with hex head bolt in front, and lip in back to prevent rotation on ground bar or bracket

EM-6627 L-shaped ground lug with headless set screw in front, and lip in back to prevent rotation on ground bar or bracket

#10 size mounting hole is standard on these two products. For 1/4" hole, please add suffix .25.

Add suffix -NBL for nut, bolt, and lockwasher, to attach any of the above ground lugs to a pedestal grounding bracket.

At a glance ...

PART NUMBER	BOLT/SCREW LOCATION	BOLT/SCREW HEAD	MOUNTING HOLE SIZE	DISTINGUISHING FEATURE	LISTING
EM-6620	front	hex head	1/4"	none	UL
EM-6621	front	headless	1/4"	none	UL
EM-6622	left	hex head	1/4"	none	UL
EM-6622HL	left	headless	1/4"	none	UL
EM-6624	right	hex head	#10	none	UL
EM-6625	right	headless	#10	none	UL
EM-6626	front	hex head	#10	anti-rotation lip	UL
EM-6627	front	headless	#10	anti-rotation lip	UL

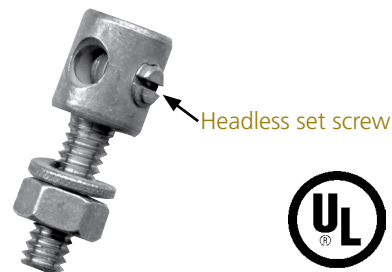
For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

Connectors – Ground Lugs

GROUND LUG

For attaching #6 AWG solid or stranded ground wires to cabinets, closures, terminals, etc. Headless set screw comes in from the side.

Ordering information – EM-3538



DOUBLE-HOLE GROUND LUGS

Plated zinc die cast alloy for mechanical strength and electrical conductivity. Accommodate #6–#2 AWG ground wires, solid or stranded.

Ordering information

EM-6630 Double-Hole Ground Lug

EM-6631 Double-Hole Ground Bar Lug with parallel mounting tang.



EM-6630



EM-6631

TRANSFORMER (TANK) GROUND LUGS

APPLICATION

For bonding telco plant to the electrical transformer in joint use situations. Hex-shaped body installs with typical hand tools and captures #6 AWG solid copper conductor.

- Brass components for electrical conductivity and corrosion resistance
- Installed with typical hand tools
- #6 AWG solid copper compatibility
- Available in two sizes to fit most transformers

Ordering information

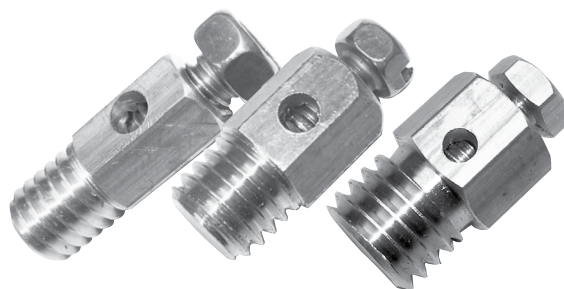
EM-TGL38 Transformer Ground Lug, 3/8"

EM-TGL48 Transformer Ground Lug, 1/2"

EM-TGL58 Transformer Ground Lug, 5/8"

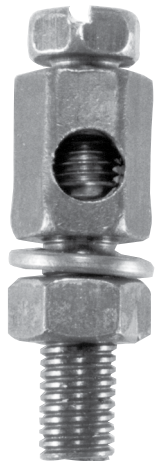
EM-TGL58.240 Transformer Ground Lug, 5/8" with .240 diameter hole to accommodate #4 AWG

Add suffix -T for tin plating.



Connectors – Ground Lugs

PEDESTAL GROUND LUG

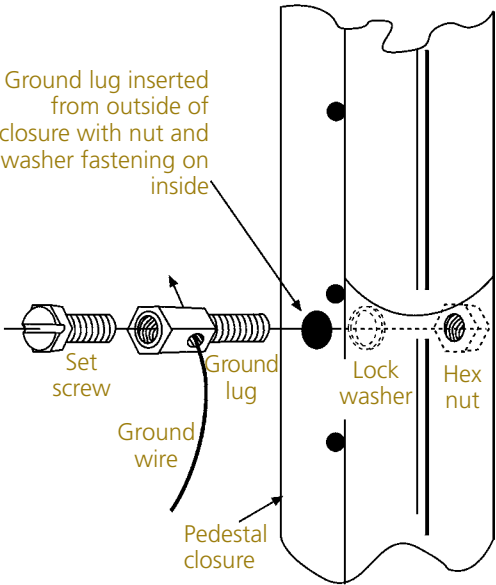


For bonding closures adjacent to power sources; connects #6 AWG solid or stranded ground wires.

Ordering information **EM-3535**
Standard packaging: 1/lb, 100/bx, 6 lb/bx.



Other designs are available;
call for information



PEDESTAL GROUND LUG



The EM-5900SB can be used in a ground bar or bracket, or through the housing of a pedestal or cabinet. All copper alloy construction. Can also be tin plated, and is also available with a lock washer and nut.

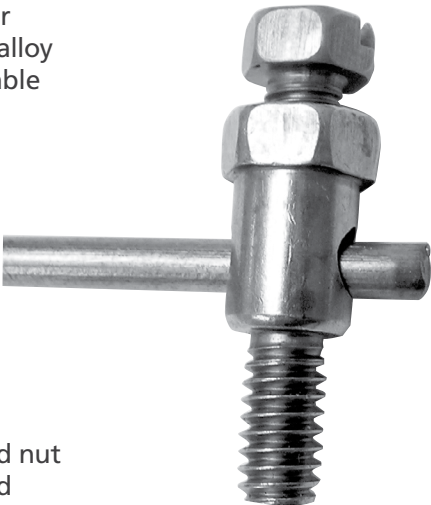
FEATURES

- 1/4-20 x 1/2 threaded shank
- Captures #6 AWG and smaller
- Silicon bronze construction for strength, electrical conductivity, and corrosion resistance

Ordering information
EM-5900SB Pedestal Ground Lug
EM-5900SB-LN Pedestal Ground Lug with lock washer and nut
EM-5900SBXL-LN Pedestal Ground Lug with 3/4" threaded shank, with lock washer and nut



Add suffix -T for tin plating.



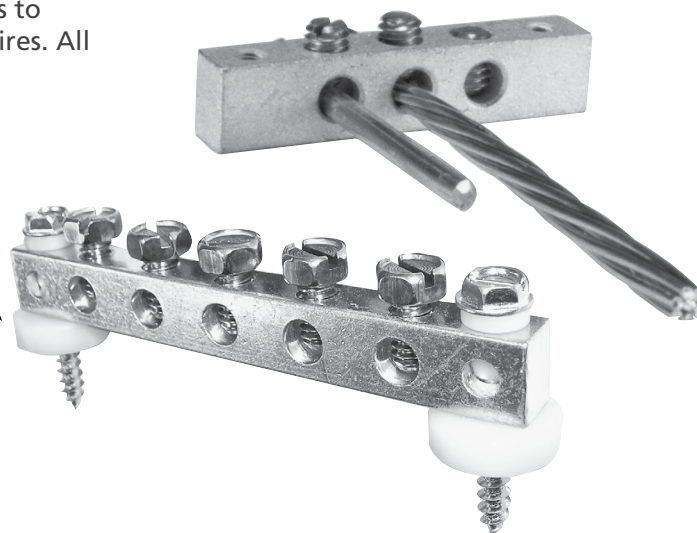
BONDING &
GROUNDING



Connectors – Ground Blocks

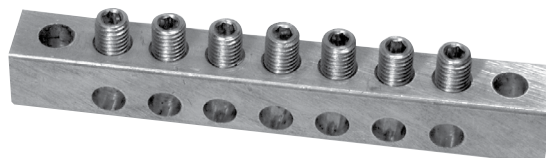
GROUND BLOCKS

Can be mounted in terminals, cabinets, and enclosures to provide a convenient means for connecting ground wires. All ground blocks are copper, unless otherwise noted. Add suffix **-MSK** to include mounting screws. Add suffix **-ISK** to include isolator mounting screws.

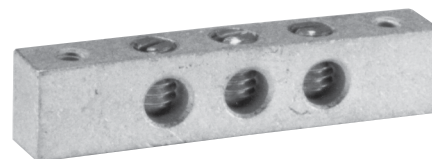


Ordering information

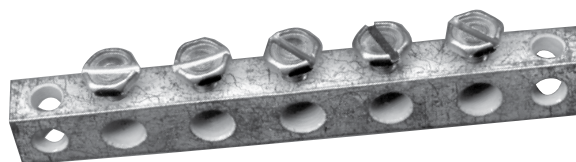
EM-4200-7-0 7-position ground block, copper, 1/2" x 1/2", set screws with Allen heads, 1/4" mounting holes.
Standard packaging: 250/bx, 30 lb/bx.



EM-4201 3-position ground block, #8–32 mounting holes.
Standard packaging: 250/bx, 30 lb/bx.



EM-4201-5S 5-position ground block with screws, .219" mounting holes.
Standard packaging: 250/bx.

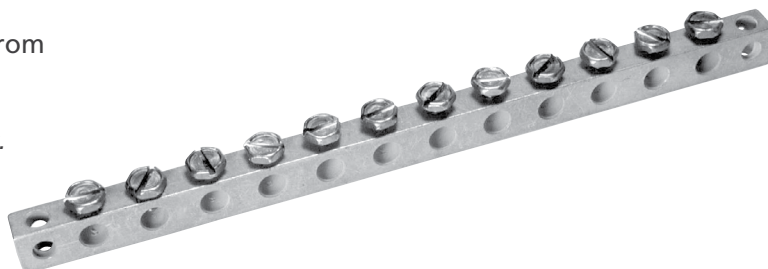


Connectors – Ground Blocks

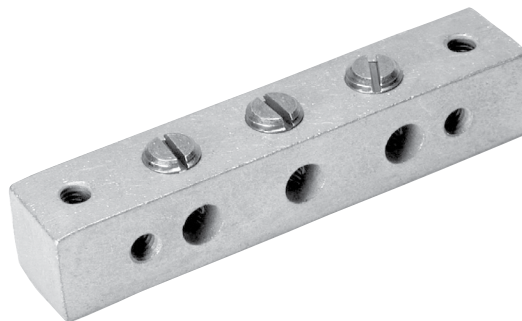
GROUND BLOCKS (CONTINUED)

Ordering information

EM-4201-12S 12-position ground block made from 3/8" x 1/2", 10 x 32 threads, with screws, .220" mounting holes.
Standard packaging: 100/bx, 36 lb/bx.



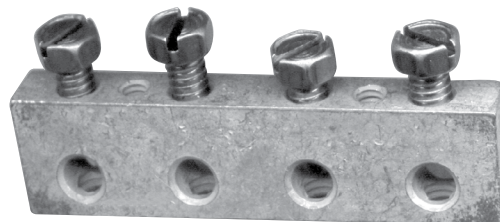
EM-4202 Multiport ground block, with headless set screws, #10–32 mounting holes.
Standard packaging: 100/bx, 22 lb/bx.



EM-4203 4-position ground block made from 1/2" x .375" with 1/4 x 20 tapped holes all the way through, and headless set screws, #10–24 mounting holes.
Standard packaging: 200/bx.



EM-4204 4-position ground block made from 3/8" x 3/4", brass hex head screws, #10–24 mounting holes.

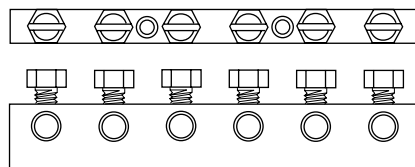


Connectors – Ground Blocks

GROUND BLOCKS (CONTINUED)

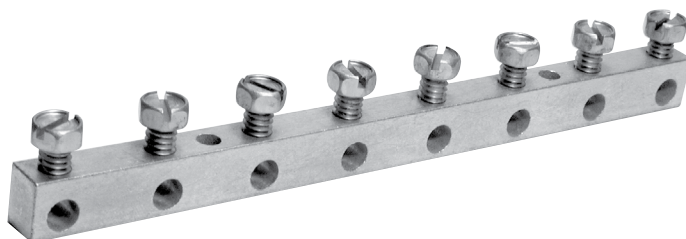
Ordering information

EM-4204-6BOH 6-position ground block made from 3/8" x 3/4", tin-plated brass hex cap screws, #10–32 mounting holes.

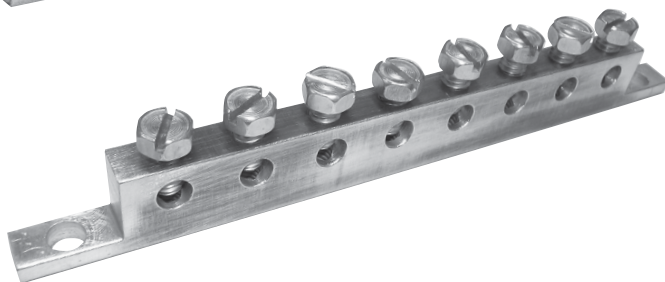


EM-4250-8H

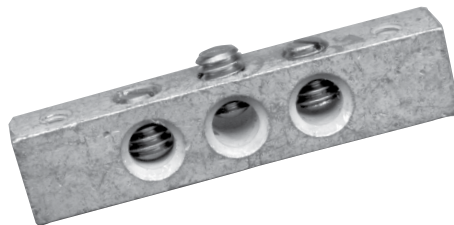
8-position ground block with 1/4–20 hex cap screws, #10–24 mounting holes.



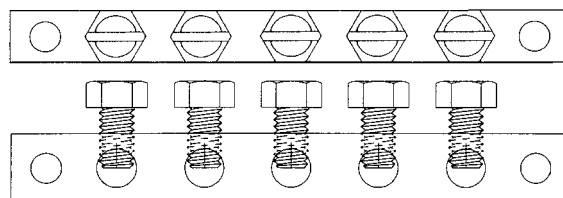
EM-4250-8HAS 8-position ground block, 360 brass, with 1/4–20 hex cap screws with slots, through holes, 1/4" mounting holes.



EM-4250-3SSO Ground block, three screws, stainless steel oval point set screws, #8–32 mounting holes.
Standard packaging: 250/bx, 27 lb/bx.



EM-4250-5BOH 5-position ground block with 1/4 - 20 x 7/16 slotted brass hex head screws, .219" mounting holes.
Standard packaging: 50/bx, 12 lb/bx.

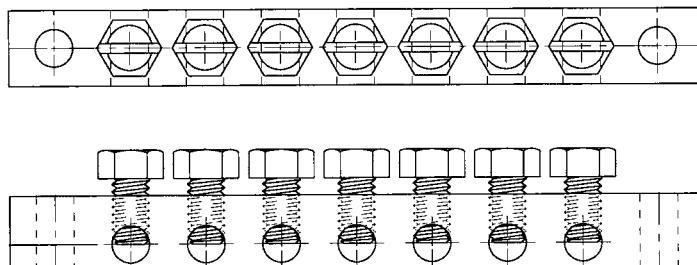


Connectors – Ground Blocks

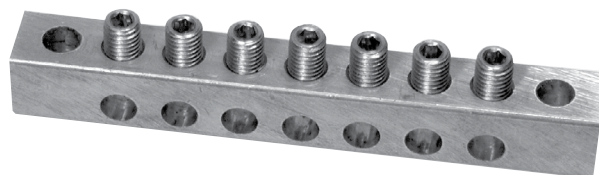
GROUND BLOCKS (CONTINUED)

Ordering information

EM-4251-7-BOH 7-position ground block, 1/2" x 1/2" with 1/4" mounting holes, brass hex head screws with slots.



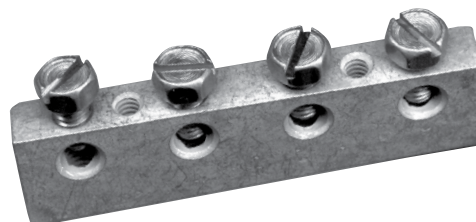
EM-4251-7-SS-O 7-position ground block, 1/2" x 1/2", oval point Allen 1/4-28 set screws, stainless steel, copper material, no tin, 1/4" mounting holes.
Standard packaging: 250/bx, 46 lb/bx.



EM-4254-12 12-position aluminum ground block with 1/4 - 28 slotted stainless steel screws, oval point. #10 mounting holes.



EM-4255-4BOM 4-position ground block, 3/8" x 3/4" with brass hex head screws. #10-32 mounting holes.



Please see next page for at-a-glance comparison of all ground blocks.

Other designs are available; call for information, or see next page for specifying custom ground blocks. Add suffix -MSK to include mounting screws. Add suffix -ISK to include isolator mounting screws.

BONDING &
GROUNDING

Connectors – Ground Blocks

GROUND BLOCKS (CONTINUED)

At a glance ...

PART NUMBER	POSITIONS	DIMENSIONS	MOUNTING HOLES	MOUNTING HOLE SPACING	SCREWS	LISTING
EM-4200-7-0	7	1/2" x 1/2" x 3-3/4"	.25"	3-1/4"	Allen	none
EM-4201	3	3/8" x 1/2" x 2-1/4"	#8-32	1-3/4"	Headless set screws	none
EM-4201-5S	5	3/8" x 1/2" x 4"	.219"	3-1/2"	Hex head	none
EM-4201-12S	12	3/8" x 1/2" x 8"	.220"	7-1/2"	Hex head	none
EM-4202	3	9/16" x 9/16" x 2-7/8"	#10-32	2-3/8", 1-15/16"	Headless set screws	none
EM-4203	4	3/8" x 1/2" x 2-1/2"	#10-24	1-3/16"	Headless set screws	none
EM-4204	4	3/8" x 3/4" x 3"	#10-24	1-1/2"	Brass hex head	none
EM-4204-6BOH	6	3/8" x 3/4" x 4-1/2"	#10-32	1-1/2"	Tin-plated brass hex head	none
EM-4250-8H	8	3/8" x 1/2" x 6-3/4"	#10-24	3-1/2"	Hex cap	none
EM-4250-8HAS	8	3/8" x 3/4" x 6-5/8"	1/4"	5-7/8"	Hex cap	none
EM-4250-3SSO	3	3/8" x 1/2" x 2-1/4"	#8-32	1-3/4"	Stainless steel oval point	UL
EM-4250-5BOH	5	3/8" x 1/2" x 4"	.219"	3-1/2"	Brass hex head	none
EM-4251-7-BOH	7	1/2" x 1/2" x 4-1/2"	1/4"	4"	Brass hex head	none
EM-4251-7-SS-0	7	1/2" x 1/2" x 3-3/4"	1/4"	3-1/4"	Oval point, Allen	UL
EM-4254-12	12	5/16" x 7/16" x 4-7/16"	#10	4"	Oval point, stainless, slotted	none
EM-4255-4BOM	4	3/8" x 3/4" x 3"	#10-32	1-1/2"	Brass hex head	none

CUSTOM GROUND BLOCKS

EM-4250-XYZ Ground block made from 3/8" x 1/2" material:
X = number of positions (1-24)
Y = material of set screw (B = brass, S = steel, SS = stainless)
Z = type of point on set screw (O = oval, C = cup)

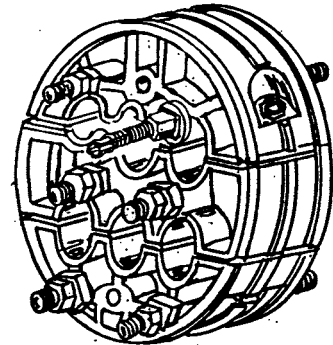
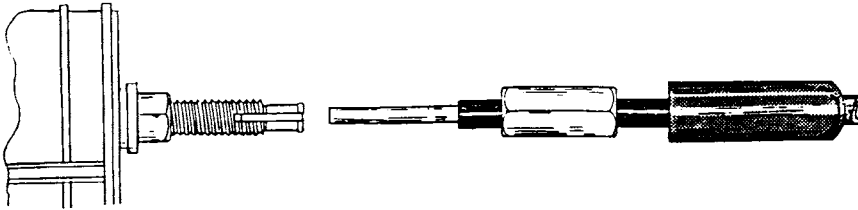


EM-4252-XYZ Ground block made from 9/16" x 9/16" material, UL listed:
X = number of positions (1-24)
Y = material of set screw (B = brass, S = steel, SS = stainless)
Z = type of point on set screw (O = oval, C = cup)

Connectors

IN-LINE CONNECTOR (STUD - #6 AWG)

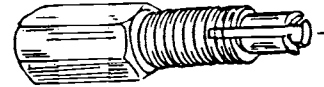
The EM-0366WR In-Line Ground Connector allows the installer to make a low-resistance, externally removable ground wire connection to the outside of a PLP Coyote Splice™ closure.



Ordering information

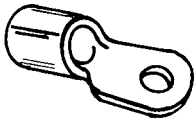
EM-0366WR In-Line Connector

EM-0366WRL Longer In-Line Connector (actual in-line connector is 1/2" longer than EM-0366WR)



LOOSE PIECE CRIMP TERMINALS

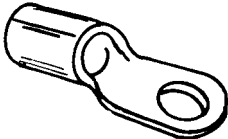
Ordering information



EM-6-10-R

#6 AWG Tin-Plated Copper Ring, #10 mounting hole.

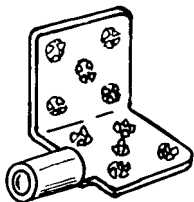
Standard packaging: 100/sm bx, 1000/lg bx, 1.5 lb/sm bx, 13 lb/lg bx.



EM-6-25-R

#6 AWG Tin-Plated Copper Ring, 1/4" mounting hole.

Standard packaging: 100/sm bx, 1000/lg bx, 1.5 lb/sm bx, 13 lb/lg bx.



EM-14-TF

#14 AWG TERMI-FOIL®.

Standard packaging: 100/lb, 1000/bx, 1.16 lb/lb.

EM-10-F

#10 and #12 AWG TERMI-FOIL®.

Standard packaging: 100/lb, 1000/bx.

Connectors

TANG AND COLLAR LUGS, SINGLE AND DOUBLE MOUNTING HOLES – OFFSET TYPE DE & 2DE

FEATURES

- Electrolytic copper tang and collar
- Unplated; for tin plating, add suffix -P to end of catalog number.

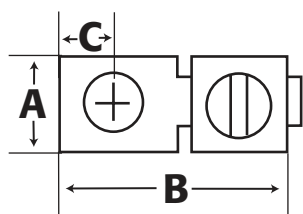
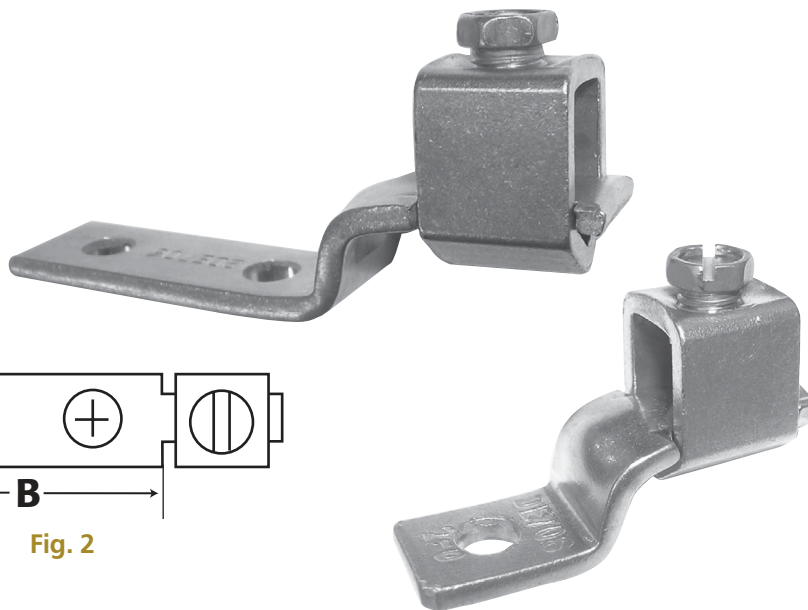


Fig. 1

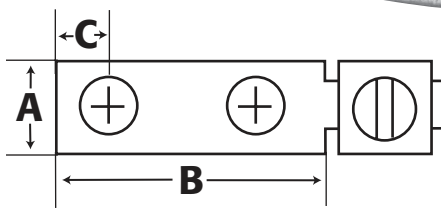


Fig. 2



Fig. 3



Ordering Information

FIGURE	A	B	C	D	T	WIRE RANGE	AMP	MOUNTING HOLES		CATALOG NUMBER
								HOLE SIZE	C TO C	
1	5/16"	3 1/32"	3/16"	3/4"	1/16"	10–14 str.	25	#6	-	*DE-703
1	3/8"	1-1/4"	7/32"	25/32"	1/16"	6–14 str.	35–50	#10	-	DE-704
1	1/2"	1-1/2"	9/32"	1-1/16"	5/64"	2–8 str.	70–90	1/4	-	*DE-705
1	5/8"	1-7/8"	3/8"	1-11/32"	1/8"	1/0–6 str.	125	1/4	-	DE-706
1	1"	2-3/4"	1/2"	1-3/4"	1/8"	4/0–2 str.	225	5/16	-	*DE-707
1	1-1/2"	4-1/4"	15/16"	2-45/64"	3/16"	500 MCM–1/0 str.	400	3/8	-	*DE-708
1	2"	4-5/8"	1-3/16"	3-7/8"	1/4"	1000–600 MCM	650	1/2	-	DE-709
2	5/16"	1-23/32"	3/16"	3/4"	1/16"	10–14 str.	25	#6	3/4	2DE-703
2	3/8"	2-1/4"	7/32"	25/32"	1/16"	6–14 str.	35–50	#10	1	2DE-704
2	1/2"	2-7/16"	1/4"	1-1/16"	5/64"	2–8 str.	70–90	1/4	1	2DE-705
2	5/8"	2-15/16"	7/16"	1-11/32"	1/8"	1/0–6 str.	125	1/4	1	2DE-706
2	1"	3-5/8"	1/2"	1-3/4"	1/8"	4/0–2 str.	225	5/16	1	2DE-707
2	1-1/2"	6"	3/4"	2-45/64"	3/16"	500 MCM–1/0 str.	400	1/2	1-3/4	2DE-708
2	2"	6-1/4"	3/4"	3-7/8"	1/4"	1000–600 MCM	650	1/2	1-3/4	2DE-709

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Connectors

TANG AND COLLAR LUGS, SINGLE AND DOUBLE MOUNTING HOLES – STRAIGHT TYPE DE & 2DE

FEATURES

- Electrolytic copper tang and collar
- Unplated; for tin plating, add suffix -P to end of catalog number.
- Sizes 704 and 706 not UL listed

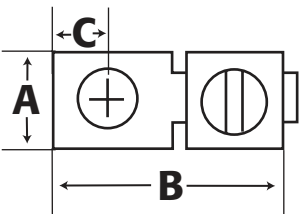
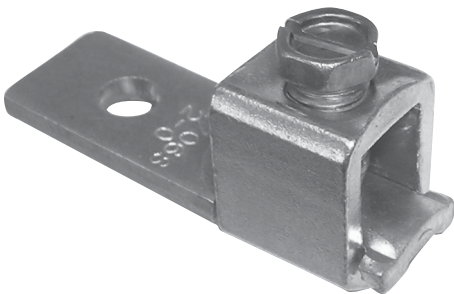


Fig. 1

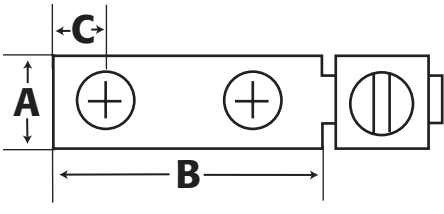


Fig. 2



Fig. 3



Ordering Information										
FIGURE	A	B	C	D	T	WIRE RANGE	AMP	MOUNTING HOLES		CATALOG NUMBER
								HOLE SIZE	C TO C	
1	5/16"	61/64"	3/16	3/4"	1/16"	10–14 str.	25	#8	-	*DES-703
1	3/8"	1-1/4"	7/32"	3/4"	1/16"	6–14 str.	35–50	#10	-	DES-704
1	1/2"	1-1/2"	9/32"	1-3/32"	5/64"	2–8 str.	70–90	1/4	-	*DES-705
1	5/8"	1-7/8"	3/8"	1-25/32"	1/8"	1/0–6 str.	125	1/4	-	DES-706
1	1"	2-3/8"	1/2"	1-27/32"	1/8"	4/0–2 str.	225	5/16	-	*DES-707
1	1-1/2"	3-7/8"	15/16"	2-9/16"	3/16"	500 MCM–1/0 str.	400	3/8	-	*DES-708
1	2"	5-1/8"	1-3/16"	3-3/4"	1/4"	1000–600 MCM	650	1/2	-	*DES-709
2	5/16"	1-5/64"	3/16"	3/4"	1/16"	10–14 str.	25	#8	3/4	2DES-703
2	3/8"	2-1/4"	7/32"	3/4"	1/16"	6–14 str.	35–50	#10	1	2DES-704
2	1/2"	2-7/16"	1/4"	1-3/32"	5/64"	2–8 str.	70–90	1/4	1	2DES-705
2	5/8"	2-15/16"	7/16"	1-25/32"	1/8"	1/0–6 str.	125	1/4	1	2DES-706
2	1"	3-5/8"	1/2"	1-27/32"	1/8"	4/0–2 str.	225	5/16	1	2DES-707
2	1-1/2"	5-5/8"	3/4"	2-9/16"	3/16"	500 MCM–1/0 str.	400	1/2	1-3/4	2DES-708
2	2"	6-7/8"	3/4"	3-3/4"	1/4"	1000–600 MCM	650	1/2	1-3/4	2DES-709

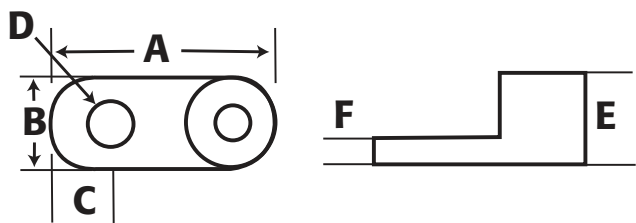
For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

Connectors

SINGLE TERMINAL LUG FOR COPPER CONDUCTOR – TYPE TL FOR CABLE TO STUD OR SCREW

FEATURES

- Forged high-conductivity copper mechanical lugs
- Suffix -P indicates tin plating.



Ordering Information

AMP RATING	CONDUCTOR RANGE		A	B	C	D	E	F	BOLT SIZE	SCREW STYLE	STANDARD CARTON	CATALOG NUMBER
	MAXIMUM	MINIMUM										
35	8 str.	14 sol.	53/64	3/8	7/32	13/64	31/64	3/32	#10	slotted	100	*TL-1
35	8 str.	14 sol.	53/64	3/8	7/32	13/64	31/64	3/32	#10	slotted	100	*TL-1-P
70	4 str.	14 sol.	1-1/8	17/32	9/32	9/32	9/16	7/64	1/4	slotted	100	*TL-2
70	4 str.	14 sol.	1-1/8	17/32	9/32	9/32	9/16	7/64	1/4	slotted	100	*TL-2-P
125	1/0 str.	6 sol.	1-31/64	23/32	3/8	21/64	49/64	7/64	5/16	socket	100	*TL-3
125	1/0 str.	6 sol.	1-31/64	23/32	3/8	21/64	49/64	7/64	5/16	socket	100	*TL-3-P
125	1/0 str.	6 sol.	1-31/64	23/32	3/8	21/64	61/64	7/64	5/16	hex	50	*TL-4
125	1/0 str.	6 sol.	1-31/64	23/32	3/8	21/64	61/64	7/64	5/16	hex	50	*TL-4-P
250	250 MCM	2/0 str.	1-63/64	61/64	31/64	25/64	1-1/16	1/8	3/8	socket	25	*TL-5
250	250 MCM	2/0 str.	1-63/64	61/64	31/64	25/64	1-1/16	1/8	3/8	socket	25	*TL-5-P
250	250 MCM	2/0 str.	1-63/64	61/64	31/64	25/64	1-15/16	1/8	3/8	hex	12	*TL-6
250	250 MCM	2/0 str.	1-63/64	61/64	31/64	25/64	1-15/16	1/8	3/8	hex	12	*TL-6-P

For Electric Motion Company (EMC) part numbers starting with “EM” please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

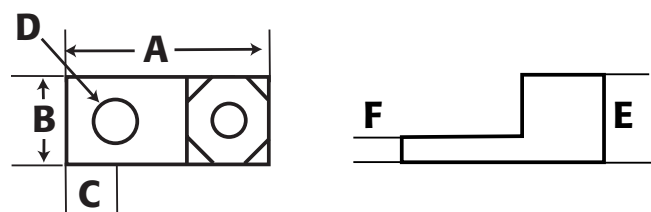


Connectors

CAST TERMINAL LUGS – TYPE CTL FOR CABLE TO STUD OR SCREW

FEATURES

- Forged high-conductivity copper mechanical lugs
- Suffix -P indicates tin plating.
- Add suffix -H for hex head screw.



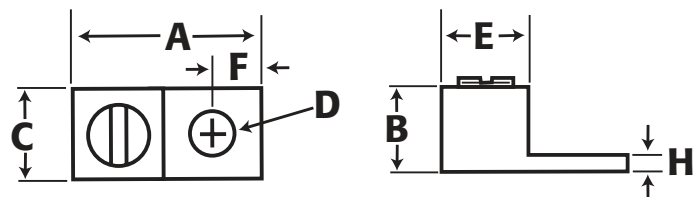
Ordering Information											
CONDUCTOR RANGE		A	B	C	D	E	F	BOLT SIZE	SCREW STYLE	STANDARD CARTON	CATALOG NUMBER
MAXIMUM	MINIMUM										
1 str.	4 str.	1-1/2	3/4	13/32	1/4	13/16	3/16	1/4	socket	50	CTL-1
1 str.	4 str.	1-1/2	3/4	13/32	1/4	13/16	3/16	1/4	socket	50	CTL-1-P
1/0 str.	4 str.	1-15/32	3/4	13/32	11/32	13/16	3/16	5/16	socket	50	CTL-1/0
1/0 str.	4 str.	1-15/32	3/4	13/32	11/32	13/16	3/16	5/16	socket	50	CTL-1/0-P
2/0 str.	4 str.	1-3/4	3/4	3/8	13/32	7/8	3/16	3/8	socket	25	CTL-2/0
2/0 str.	4 str.	1-3/4	3/4	3/8	13/32	7/8	3/16	3/8	socket	25	CTL-2/0-P
4/0 str.	1 str.	1-13/16	1	7/16	13/32	1-1/32	7/32	3/8	socket	12	CTL-4/0
4/0 str.	1 str.	1-13/16	1	7/16	13/32	1-1/32	7/32	3/8	socket	12	CTL-4/0-P
500 MCM	4/0 str.	3-1/16	1-7/16	3/4	9/16	1-1/2	7/32	3/8	socket	6	CTL-500
500 MCM	4/0 str.	3-1/16	1-7/16	3/4	9/16	1-1/2	7/32	3/8	socket	6	CTL-500-P

Connectors

UNIVERSAL TERMINAL – FOR SINGLE ALUMINUM AND COPPER CONDUCTOR

FEATURES

- Dual-rated, one-conductor lugs
- Constructed from high-strength, high-conductivity aluminum alloy
- Electro-tin plated for low-contact resistance



Ordering Information									
SCREW TYPE	WIRE RANGE AL9CU	A	B	C	D	E	F	H	CATALOG NUMBER
slotted	4–14	0.835	0.5	0.375	0.193	0.375	0.25	0.1	6T
slotted	4–14	1.062	0.5	0.5	0.265	0.375	0.25	0.094	4T
slotted	4–14	1.156	0.56	0.5	0.265	0.47	0.25	0.1	2T
slotted	1/0–14	1.468	0.781	0.625	0.265	0.625	0.437	0.187	0T
slotted	1/0–14	1.171	0.671	0.625	0.265	0.578	0.25	0.13	0T1
hex socket	2/0–14	1.468	0.781	0.625	0.265	0.625	0.437	0.187	2/0T
hex socket	2/0–14	1.625	0.75	0.656	0.265	0.625	0.437	0.25	2/0T1
hex socket	3/0–6	1.875	0.89	0.7	0.265	0.88	0.5	0.145	3/0T
hex socket	250 MCM–6	2	1.125	1	0.328	1	0.406	0.25	250T
hex socket	300 MCM–6	2	1.125	1	0.281	1	0.5	0.25	300T
hex socket	350 MCM–6	2.25	1.25	1.125	0.406	1.125	0.5	0.25	350T
hex socket	500 MCM–4	2.812	1.562	1.5	0.406	1.218	0.875	0.312	500T
hex socket	600 MCM–2	3.125	1.562	1.5	0.531	1.375	0.875	0.437	600T
hex socket	750 MCM–4/0	3.375	1.937	1.625	0.531	1.625	0.875	0.5	750T
hex socket	800 MCM– 300 MCM	3.375	1.937	1.575	0.656	1.625	0.875	0.5	800T
hex socket	1000 MCM– 500 MCM	3.375	1.937	1.75	0.656	1.625	0.875	0.5	1000T

For Electric Motion Company (EMC) part numbers starting with “EM” please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

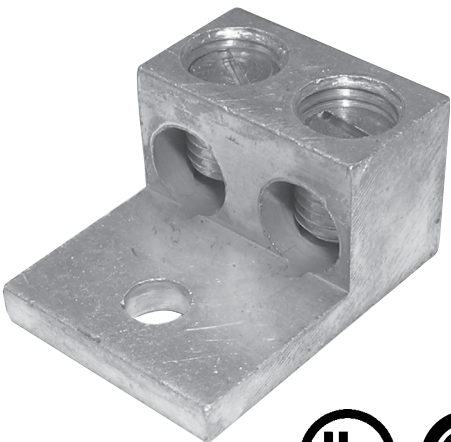
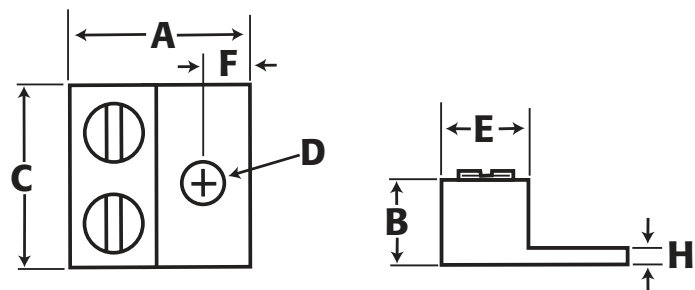


Connectors

UNIVERSAL TERMINAL – FOR DOUBLE ALUMINUM AND COPPER CONDUCTOR

FEATURES

- Dual-rated, two-conductor lugs
- Constructed from high-strength, high-conductivity aluminum alloy
- Electro-tin plated for low-contact resistance



Ordering Information									
SCREW TYPE	WIRE RANGE AL9CU	A	B	C	D	E	F	H	CATALOG NUMBER
slotted	Two 2–14	1.156	0.56	0.906	0.272	0.47	0.25	0.1	2-2T
slotted	Two 1/0–14	1.468	0.781	1.12	0.265	0.625	0.328	0.187	2-0T
hex socket	Two 2/0–14	1.468	0.781	1.12	0.265	0.625	0.328	0.187	2-2/0T
hex socket	Two 3/0–6	1.75	0.844	1.375	0.266	0.78	0.468	0.187	2-3/0T
hex socket	Two 250 MCM–6	2.562	1.187	1.625	0.391	1	0.875	0.25	2-250T
hex socket	Two 350 MCM–6	2.875	1.25	1.937	0.562	1.125	0.875	0.25	2-350T
hex socket	Two 500 MCM–4	2.812	1.562	2.266	0.562	1.218	0.875	0.312	2-500T
hex socket	Two 600 MCM–2	3.125	1.562	2.406	0.531	1.375	0.625	0.437	2-600T
hex socket	Two 750 MCM–4/0	3.375	1.937	2.875	0.531	1.625	0.875	0.5	2-750T
hex socket	Two 800 MCM–300 MCM	3.375	1.937	2.925	0.656	1.625	0.875	0.5	2-800T
hex socket	Two 1000 MCM–500 MCM	3.375	1.937	3.187	0.656	1.625	0.875	0.5	2-1000T

BONDING & GROUNDING

For Electric Motion Company (EMC) part numbers starting with “EM” please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

Connectors

HAND-HELD CRIMP TOOL

#8–#2 AWG conductor range covers red, blue, grey, and brown compression lugs that are made from tubing. Ergonomic design features cushioned grips, easy-grip jaws, and rotating tool nest. Manufactured in the U.S.A.

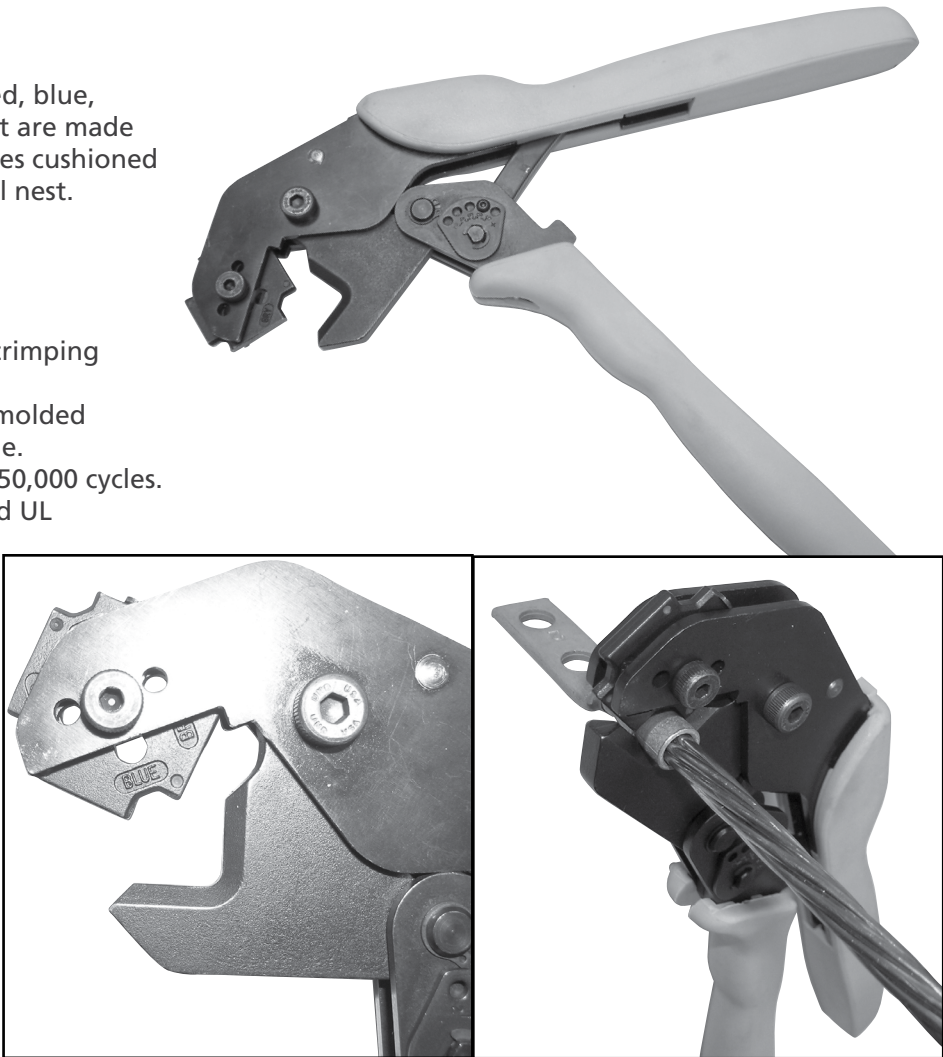
FEATURES

- Positive ratcheting assembly with emergency release, prevents overcrimping or undercrimping.
- High mechanical advantage with molded cushion grips minimize user fatigue.
- Tool life is conservatively rated at 50,000 cycles.
- Crimps designed to meet or exceed UL tensile requirements.

Ordering information

EM-4290CT
Hand-Held Crimp Tool, #8–#2 AWG

DIE INDEX NUMBER	GAGE DIE (IN.)		WIRE SIZE
	MIN.	MAX	
Red	.178	.200	8
Blue	.220	.238	6
Grey	.265	.275	4
Brown	.325	.347	2

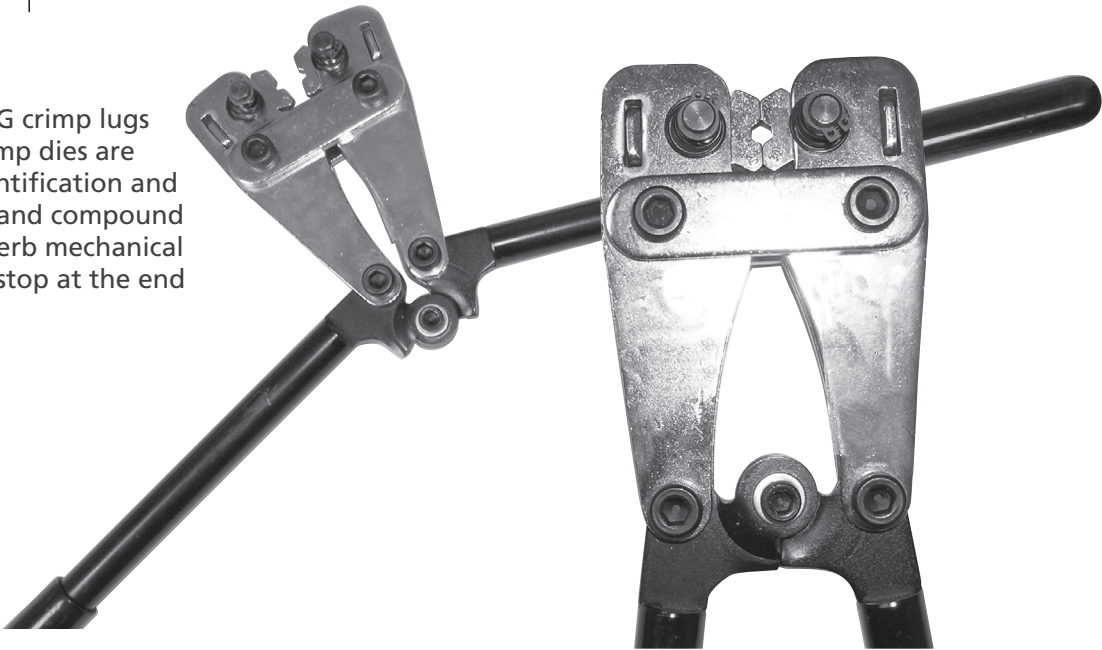


CRIMP TOOL

For crimping #8–1/0 AWG crimp lugs and splices. Rotating crimp dies are color coded for easy identification and selection. Long handles and compound lever action provide superb mechanical advantage and positive stop at the end of the crimp cycle.

Ordering information

EM-080CT
Standard packaging:
1/bx, 9 lb/bx



For Electric Motion Company (EMC) part numbers starting with “EM” please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Clamps – Bronze Vise Type Connectors

BRONZE VISE TYPE CONNECTORS

Silicon bronze clamps adjustable by single hex head screws, used to connect various size grounding conductors, as well as pole line apparatus to grounding conductors.

FEATURES

- Casting and bolt are both made of silicon bronze for greater strength, conductivity, and corrosion resistance.
- Install using the standard can wrench.

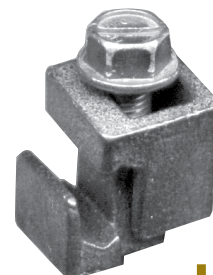
Ordering information

EM-2370 is manufactured to Bell Spec CA08980 (H1). It accommodates:

- Single or multiple #6 AWG wires solid or stranded
- #6 AWG to #10 or #12 AWG
- From single 2-pair BSW metallic shield, to three 2-pair BSW metallic shields

Standard packaging: 100/bx, 8 lb/bx.

EM-2370NS Same as above, with no slot.



H1



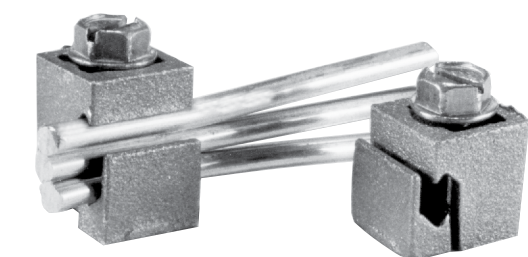
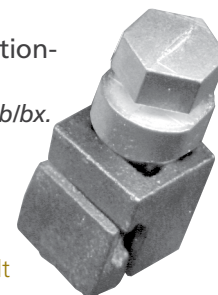
Ordering information

EM-2371 Silicon Bronze Clamp
Standard packaging: 5/bg, 100/bx, 10 lb/bx.

EM-2371-2 Silicon Bronze Clamp with a vibration-resistant screw
Standard packaging: 5/bg, 100/bx, 9 lb/bx.

Add suffix -T for a tin-plated clamp.
Add suffix -BA for a torque shear head.

EM-2371 with torque shear head bolt



H2

EM-2371 is similar to the EM-2370, only with the addition of “tongue and groove” type alignment channels to keep the two halves of the clamp in proper alignment with each other.

Accommodates:

- #12–#4 AWG solid
- #1/0 B, C, or D stranded copper to #6, #8, #10, #12 AWG solid bare copper wire
- 6.6–10M support strand to #6, #8, #10, #12 AWG solid bare copper wire



Ordering information

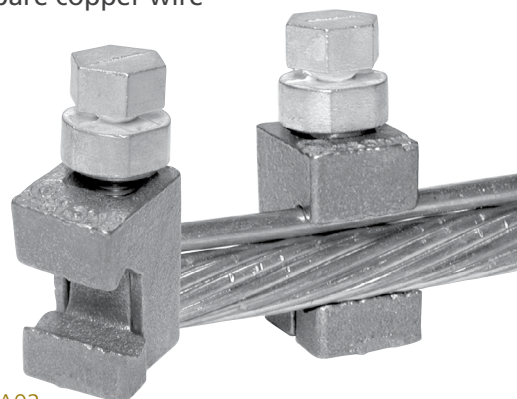
EM-2372 H2 Silicon Bronze Clamp.
Standard packaging: 5/bg, 100/bx, 15lb/bx.

EM-2372-2 H2 Silicon Bronze Clamp with a vibration-resistant screw

EM-2372-BA02 H2 Silicon Bronze Clamp with a vibration-resistant screw and torque shear head

Add suffix -T for a tin-plated clamp.

EM-2372-BA02



BONDING &
GROUNDING

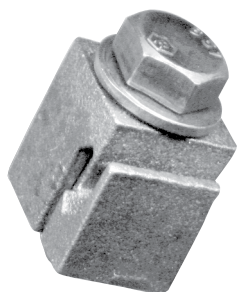
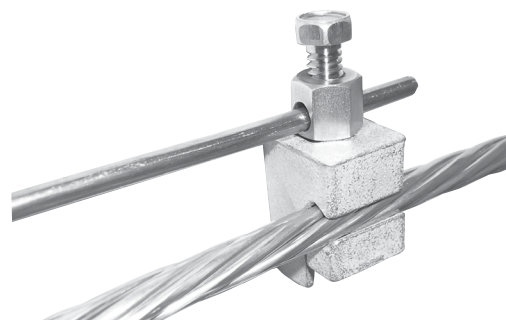
For Electric Motion Company (EMC) part numbers starting with “EM” please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

Clamps – Bronze Vise Type Connectors

BRONZE VISE TYPE CONNECTORS (CONTINUED)

EM-2372CC is similar to EM-2372 (see previous page), with the addition of:

- Tin plating for corrosion resistance and compatibility with aluminum;
- Additional wire termination point for capturing extra wires, to allow the connection of dissimilar wires, such as copper and aluminum.;
- Stainless steel bolt for mechanical strength and corrosion resistance.



EM-2374 is used for attaching a solid or stranded #4 AWG through #8 AWG wire to a #4 AWG conductor run.

Standard packaging: 100/lbx, 16 lb/lbx.

Add suffix **-SH** for a shear-off bolt.

Add suffix **-BR** for a shear-off zinc cap.

Add suffix **-BV** for a shear-off zinc cap and anti-loosening device.

Add suffix **-P** for tin plating.



EM-2375 is used for attaching a solid or stranded #2 AWG through #6 AWG wire to a #2 AWG conductor run.

Standard packaging: 100/lbx, 3 lb/lbx.

Add suffix **-SH** for a shear-off bolt.

Add suffix **-BR** for a shear-off zinc cap.

At a glance . . .

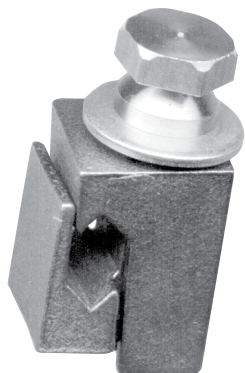
PART NUMBER	ACCOMMODATES	DISTINGUISHING FEATURES	LISTING
EM-2370	#6–#6, #10, #12; up to 3 2-pair BSW	Mfd to Bell Spec CA08980 (H1)	
EM-2371	(same)	Tongue & groove channels	UL
EM-2371-2	(same)	Vibration-resistant screw	
EM-2372	#12–#4 AWG solid; 1/0 B, C, or D stranded to #6–#12 AWG solid; 6.6–10M support strand to #6–#12 AWG solid	H2—Mfd. to Bell Spec CA08980	UL
EM-2372-2	(same)	Vibration-resistant screw	
EM-2372-BA02	(same)	Vibration-resistant screw, torque shear head	
EM-2372CC	(same in the jaws) #6–#14 AWG solid or stranded in the bolt head	Tin plating; stainless steel bolt; additional wire termination point	
EM-2374	#4–#8 AWG to #4 AWG conductor run		
EM-2374-SH	(same)	Shear-off bolt	
EM-2374-BR	(same)	Shear-off zinc cap	
EM-2374-BV	(same)	Shear-off zinc cap, anti-loosening	
EM-2375	#2–#6 AWG to #4 AWG conductor run		
EM-2375-SH	(same)	Shear-off bolt	
EM-2375-BR	(same)	Shear-off zinc cap	

For Electric Motion Company (EMC) part numbers starting with “EM” please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Clamps – Bronze Vise Type Connectors

BRONZE VISE TYPE CONNECTORS (CONTINUED)



Accommodates #6 AWG–#2 AWG str., .162"–.320" (4.12–8.14 mm)

Ordering information

EM-2376-SH

Add suffix **-SS** for a stainless steel bolt.

Remove suffix **-SH** for a clamp without torque shear head.

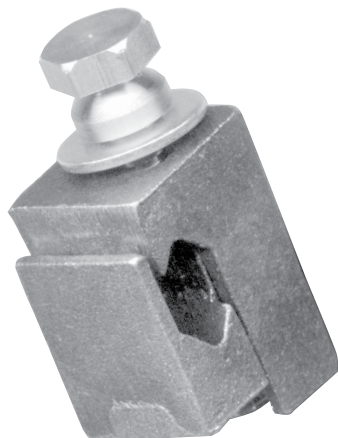
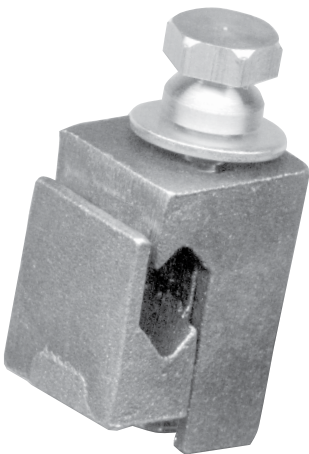
Accommodates #2 AWG solid–#2/0 AWG str., .286"–.438" (7.28–11.15mm)

Ordering information

EM-2377-SH

Add suffix **-SS** for a stainless steel bolt.

Remove suffix **-SH** for a clamp without torque shear head.



Accommodates #1/0 AWG str–#4/0 AWG str .390"–.552" (9.93–14.05mm)

Ordering information

EM-2379-SH

Add suffix **-SS** for a stainless steel bolt.

Remove suffix **-SH** for a clamp without torque shear head.

At a glance ...

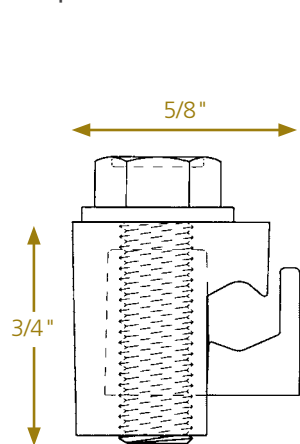
PART NUMBER	ACCOMMODATES	DISTINGUISHING FEATURES	LISTING
EM-2376	#6–#2 AWG str., .162"–.320" (4.12–8.14mm)		
EM-2376-SH	(same)	Torque shear head	
EM-2376-SS	(same)	Stainless steel bolt	
EM-2377	#2 solid–#2/0 AWG str., .286"–.438" (7.28–11.15mm)		
EM-2377-SH	(same)	Torque shear head	
EM-2377-SS	(same)	Stainless steel bolt	
EM-2379	#1/0–#4/0 AWG str., .390"–.552" (9.93–14.05mm)		
EM-2379-SH	(same)	Torque shear head	
EM-2379-SS	(same)	Stainless steel bolt	

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

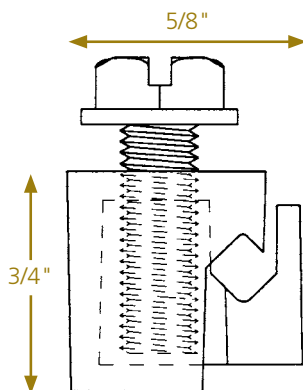
Clamps – Bronze Vise Type Connectors

Size at a glance . . .

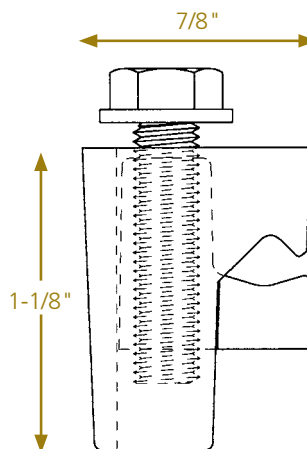
Clamps shown actual size.



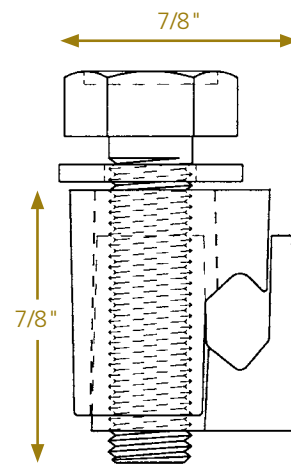
EM-2370



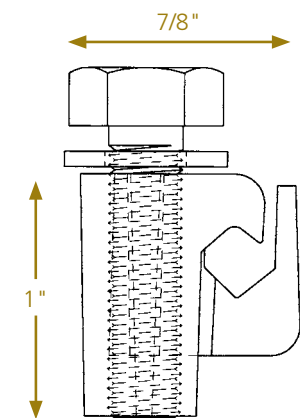
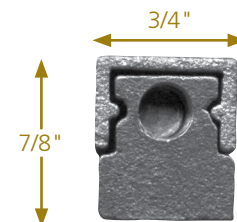
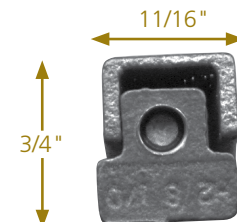
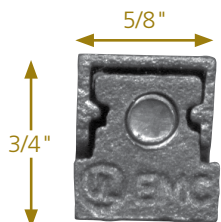
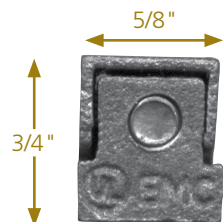
EM-2371



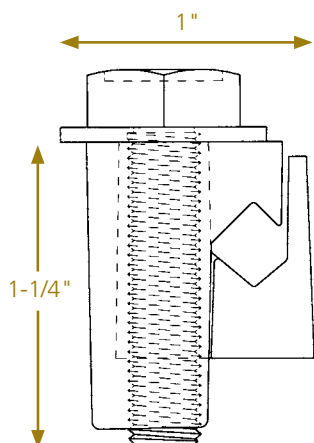
EM-2372



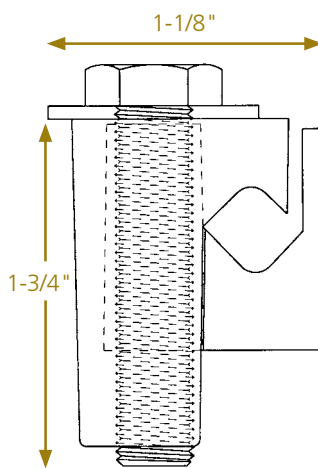
EM-2374



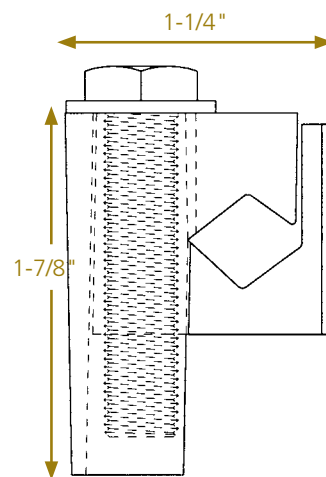
EM-2375



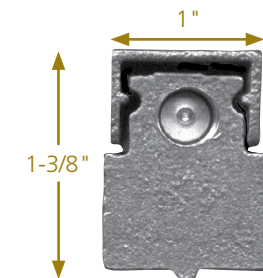
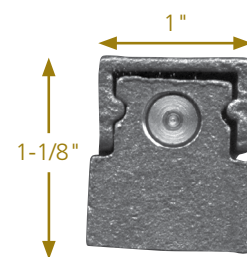
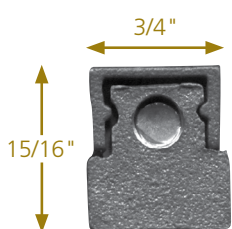
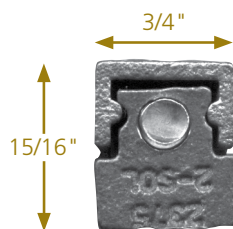
EM-2376



EM-2377



EM-2379



BONDING & GROUNDING

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

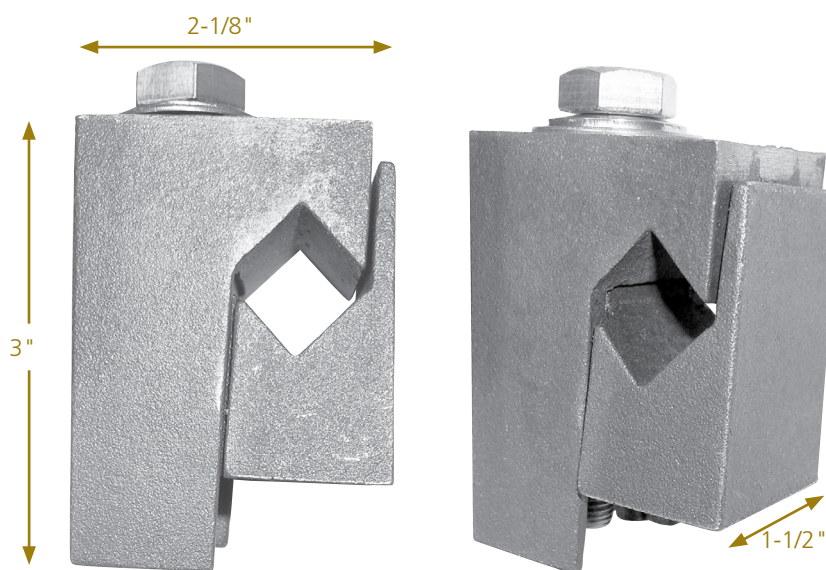
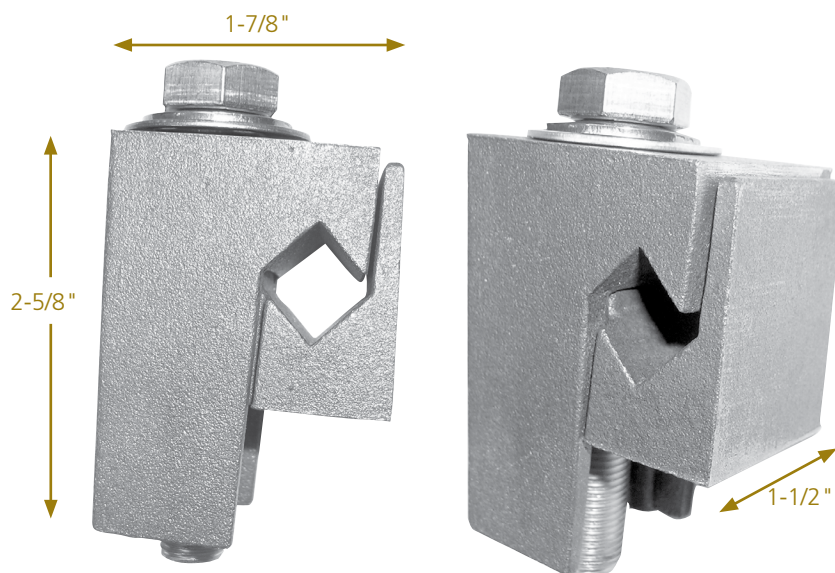


Clamps – Bronze Vise Type Connectors

BRONZE VISE TYPE CONNECTORS (CONTINUED)

Accommodates two conductors, 1/0 str–350 kcmil, .325"–.710" (8.27–18.07mm). 1/2–20 bolt, 3/4" hex head. Stainless steel bolt and Belleville washer.

Ordering information
EM-2380



Accommodates two conductors, 4/0 str–500 kcmil, .522"–.813" (13.28–20.69mm). 1/2–20 bolt, 3/4" hex head. Stainless steel bolt and Belleville washer.

Ordering information
EM-2381

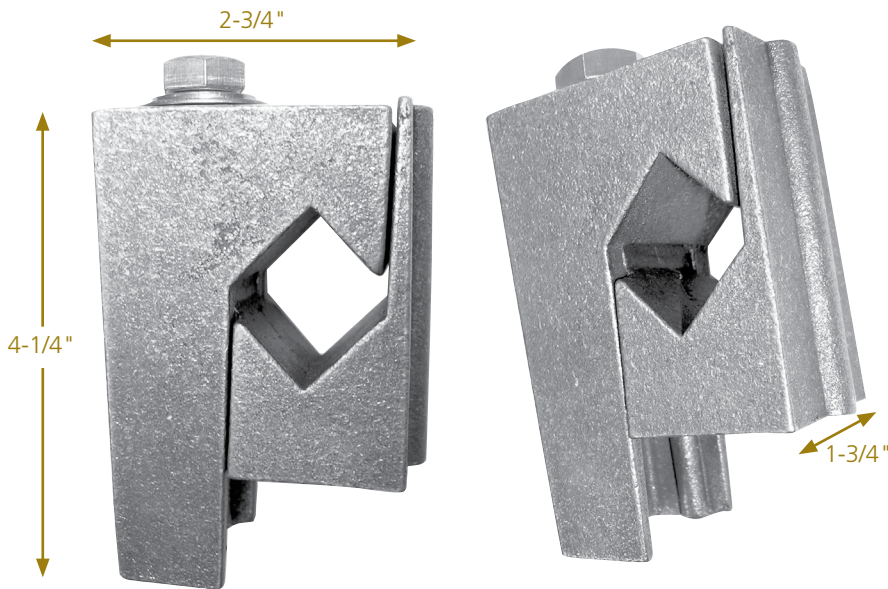
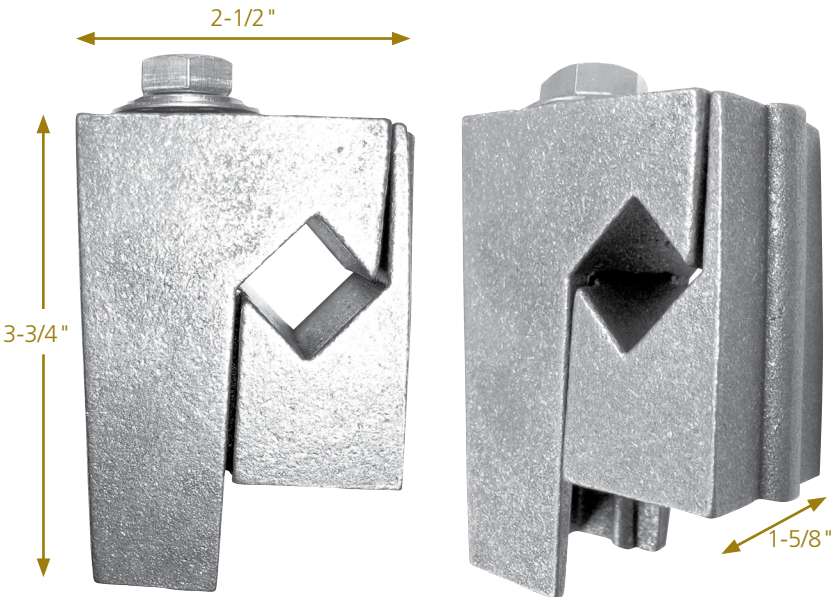
BONDING &
GROUNDING

Clamps – Bronze Vise Type Connectors

BRONZE VISE TYPE CONNECTORS (CONTINUED)

Accommodates two conductors, 250–750 kcmil, .550"–.998" (14.00–25.40mm). 1/2–20 bolt, 3/4" hex head. Stainless steel bolt and Belleville washer.

Ordering information
EM-2382



Accommodates two conductors, 400–1000 kcmil, .726"–1.152" (18.48–29.32mm) 1/2–20 bolt, 3/4" hex head. Stainless steel bolt and Belleville washer.

Ordering information
EM-2383

At a glance ...

PART NUMBER	ACCOMMODATES
EM-2380	2 conductors, #1/0 solid–350 kcmil
EM-2381	2 conductors, #4/0 str–500 kcmil
EM-2382	2 conductors, 250–750 kcmil
EM-2383	2 conductors, 400–1000 kcmil

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



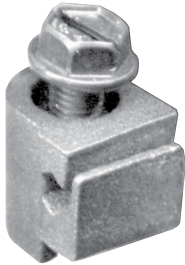
Clamps – Bronze Vise Type Connectors

BRONZE VISE TYPE CONNECTORS (CONTINUED)

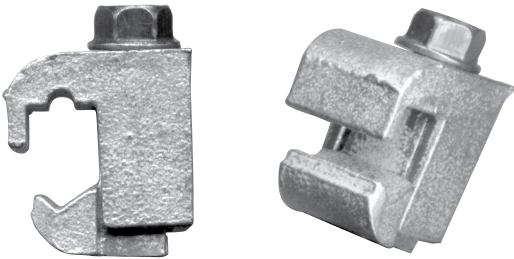
Ordering information

EM-0174P
Connector for #1/0 str. and #6 AWG or plain bonding ribbon.
Standard packaging: 100/bx, 14 lb/bx.

EM-0174PBV
With shear-off zinc cap and anti-loosening device.



- EM-2360**
Round body clamp for:
- Single or multiple #6 AWG wires solid or stranded
 - #6 AWG to #10 or #12 AWG
 - From single 2-pair BSW metallic shield, to three 2-pair BSW metallic shields



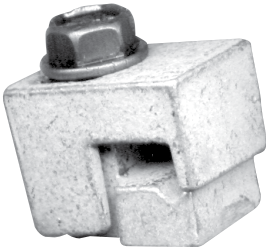
EM-0164
Connector for plain bonding ribbon to plain bonding ribbon, or ribbon to #6 AWG solid ground wire
Standard packaging: 5/lbg, 100/bx, 12 lb/bx.

EM-0164P
Tin plated

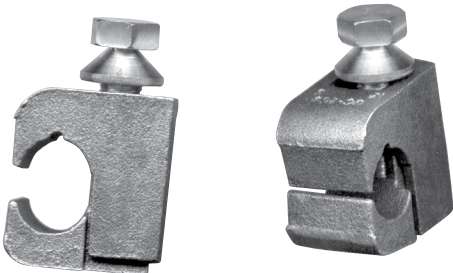
EM-0164BV
With shear-off zinc cap and anti-loosening device

EM-GC-268
Bronze Grounding Connector, for conductor to 1/4"–5/8" ground rod. #6 solid AWG–#10 solid AWG

EM-GC-268-SS
Same as EM-GC-268 (above), with stainless steel bolt, non-breakaway head, and washer



RUS Listed



At a glance ...

PART NUMBER	ACCOMMODATES	DISTINGUISHING FEATURES	LISTING
EM-0174P	#1/0 and #6 AWG, or bonding ribbon		
EM-0174PBV	(same)	Shear-off zinc cap, anti-loosening	
EM-2360	#6–#6, #10, #12; up to 3 2-pair BSW	Round body clamp	UL
EM-0164	Plain bond ribbon to round #6 AWG		UL
EM-0164P	(same)	Tin plated	UL
EM-0164BV	(same)	Shear-off zinc cap, anti-loosening	
EM-GC-268	1/4"–5/8" ground rods		
EM-GC-268-SS	(same)	Stainless steel bolt and washer, non-breakaway bolt head	

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Clamps – Bronze Vise Type Connectors

C CONNECTOR

Ordering information

EM-0167

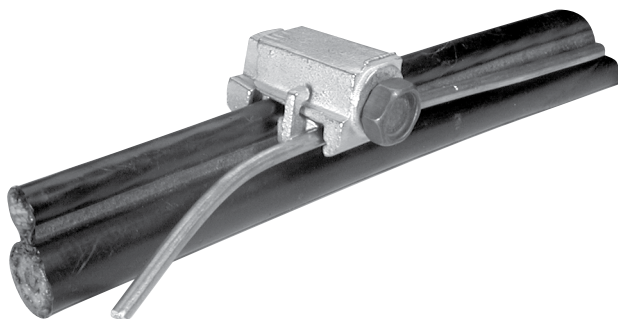
Tin-plated bronze connector with teeth for piercing the messenger insulation of Figure 8 cable. For messenger diameters of .146"–.312" (3.71–7.94mm) and ground conductor range of .146"–.312".

Available with stainless steel or bronze bolt.

Standard packaging: 100/lbx, 23 lb/lbx.

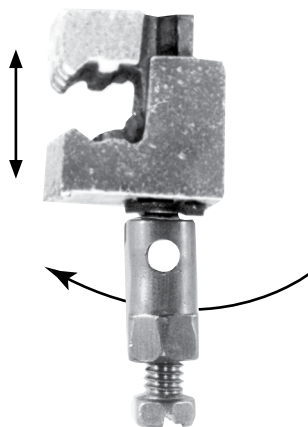
EM-0167BV

With shear-off zinc cap and anti-loosening device

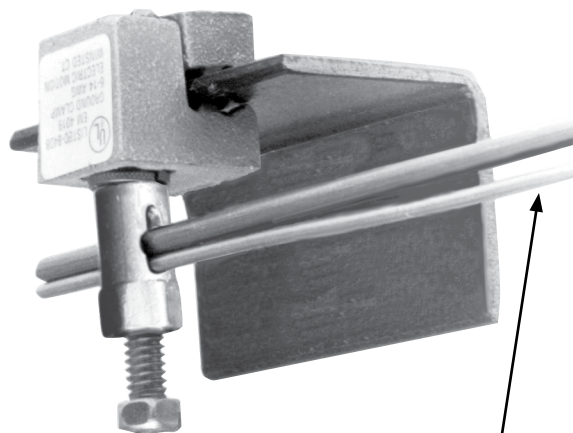


Clamps – Trailer I-Beam Clamps

TRAILER I-BEAM CLAMPS



EM-4015
Side view,
open position



EM-4019
Insert stranded or solid
#6, #10, #12, or #14 AWG

A tin-plated bronze casting with teeth; brass hex thru-bolt with hole, brass set screw, and bronze lockwasher.

Applications

- Grounding to metal buildings, bridges
- Provides connection for bonding and grounding wires, ribbons, and braid to I-beams
- Also used as strand clamp (electrical)

Features

- Teeth penetrate through oxidation or undercoating for positive ground.
- Applied with the standard terminal wrench
- Tin plate reduces corrosion
- Silicon bronze for greater strength and conductivity
- Perforated bonding ribbon or braid with eyelets attaches under set screw.

BONDING &
GROUNDING

Clamps – Trailer I-Beam Clamps

TRAILER I-BEAM CLAMPS (CONTINUED)

Ordering information :



EM-4014 – With ground wire hole and short slot, enabling connection of #6 and #10 AWG simultaneously, as well as #6–#14 AWG individually.
Standard packaging: 10/bg, 100/lbx, 23 lb/lbx



EM-4015 – With plain round ground wire hole to accept #6–#14 AWG.
Standard packaging: 10/bg, 100/lbx, 23 lb/lbx



EM-4015C – Larger diameter cross hole accommodates stranded #6 AWG ground wire, .228 diameter, and down to #14 AWG.



EM-4018 – With ground wire hole for #6–#14 AWG, and long slot to also connect plain bond ribbon.
Standard packaging: 10/bg, 100/lbx, 24 lb/lbx



EM-4019 – Hole and slot combinations accept ribbon, two wires simultaneously, or #6–#14 AWG individually.
Standard packaging: 10/bg, 100/lbx, 24 lb/lbx



At a glance ...

PART NUMBER	ACCOMMODATES	DISTINGUISHING FEATURES	LISTING
EM-4014	#6 and #10 AWG simultaneously #6–#14 AWG individually	hole and short slot	UL, CSA
EM-4015	#6–#14 AWG		UL, CSA
EM-4015C	#6 stranded–#14 AWG	larger hole	
EM-4018	Ground wire and plain bond ribbon #6–#14 AWG	hole and long slot	UL, CSA
EM-4019	Ground wire, bond ribbon, and #6–#14 AWG individually	hole, long and short slots	UL, CSA

For Electric Motion Company (EMC) part numbers starting with “EM” please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



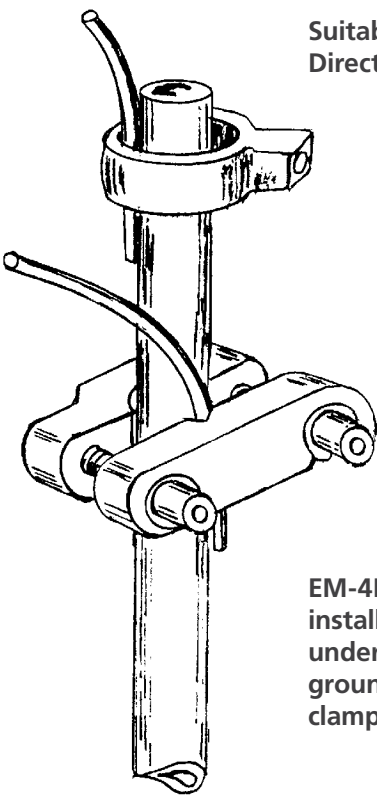
Ground Rod Clamps

GROUND ROD CLAMPS AND CLOSURE

A cast silicon bronze clamp for use on 1/2"–5/8" ground rods.

Features

- Swivel design (EM-4DBs) or removable bolt designs allow installation anywhere on a ground rod, above or below an existing clamp.
- One size fits all variations of 1/2"–5/8" copper clad and galvanized ground rods.
- Foolproof installation—optional torque shear heads breakaway at a predetermined torque to prevent over- or undertorquing.
- No loosening of bolts—nylon lock mechanism maintains constant tension.
- Quick installation—"V"-shaped halves keep wire automatically centered on ground rod.
- Low resistance—wire comes in direct contact with ground rod, making best possible connection.
- No reversing necessary—design fits tightly on small size 1/2" rods, does not bottom out.
- Optional grease-filled closure helps prevent corrosion.
- Accommodates #12–#6 AWG solid ground wires.



Suitable for
Direct Burial

EM-4DB-01
installed
under existing
ground rod
clamp

At a glance ...				
PART NUMBER	GROUND ROD	WIRE SIZE	DISTINGUISHING FEATURE	LISTING
EM-4DB	5/8" & 1/2"	#12–6 sol.	Swivel unit	cULus, RUS
EM-4DB-01	5/8" & 1/2"	#12–6 sol.	Swivel unit, Torque shear heads, Anti-loosening	cULus, RUS
EM-4DB-02	5/8" & 1/2"	#12–6 sol.	Swivel unit, 1/2" torque shear heads, Anti-loosening	cULus, RUS
EM-4DB-02NB	5/8" & 1/2"	#12–6 sol.	Swivel unit, 1/2" hex heads	
EM-4DBBR	5/8" & 1/2"	#12–6 sol.	Swivel unit, Torque shear heads, Anti-loosening, Removable	cULus, RUS



Ground Rod Clamps

GROUND ROD CLAMPS AND CLOSURE (CONTINUED)

Ordering information :

EM-4DB

- 1/2"–5/8" ground rod clamp
- swivel unit
- regular 7/16" hex bolts
- non-breakaway
- no anti-loosening device
- accommodates #12–#6 AWG ground wires

Standard packaging: 10/bg, 100/lbx, 40 lb/bx

RUS
Listed
c  US
LISTED
84D8

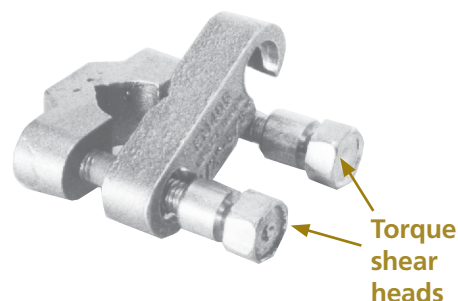


EM-4DB-01

- 1/2"–5/8" ground rod clamp
- swivel unit
- 7/16" torque shear heads
- anti-loosening device
- accommodates #12–#6 AWG ground wires

Standard packaging: 10/bg, 100/lbx, 41 lb/bx

RUS
Listed
c  US
LISTED
84D8

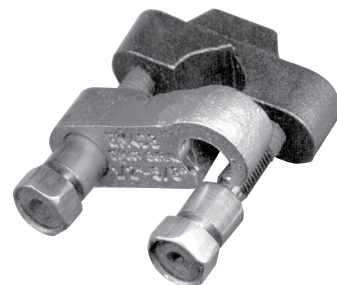


EM-4DB-02

- 1/2"–5/8" ground rod clamp
- swivel unit
- 1/2" torque shear heads
- anti-loosening device
- accommodates #12–#6 AWG ground wires
- add suffix -NB for no torque shear heads, no anti-loosening device

Standard packaging: 10/bg, 100/lbx, 42 lb/bx

RUS
Listed
c  US
LISTED
84D8

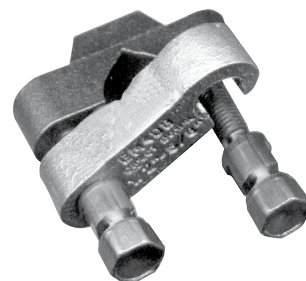


EM-4DBBR

- 1/2"–5/8" ground rod clamp
- swivel unit
- 7/16" torque shear heads (later removable)
- anti-loosening device
- accommodates #12–#6 AWG ground wires

Standard packaging: 10/bg, 100/lbx, 35 lb/bx

RUS
Listed
c  US
LISTED
84D8



Ground Rod Clamps

GROUND ROD CLAMP WITH CONNECTOR FOR LOCATING WIRE

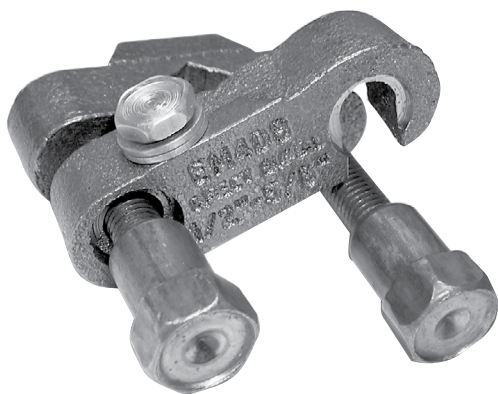
This clamp is perfect for FTTH. The swivel-open design allows placement under the existing power utility ground rod clamp, which is today's first choice. Made from silicon bronze castings, it is UL listed and direct buriable.

The separate connection for Mule Tape Locating Wire is convenient to disconnect and reconnect, for locating safely while maintaining a continuous ground.

EM-4DB-V22

- 1/2"–5/8" ground rod clamp
- swivel unit
- 7/16" torque shear heads (later removable)
- anti-loosening device
- accommodates #10–#6 AWG, plus #22 AWG ground wires

Standard packaging: 10/bg, 100/bx, 35 lb/bx



Ground Rod Clamps

GROUND ROD CLAMPS

Cast bronze, accommodate #12–1/0 AWG (unless otherwise noted).

Features

- Two diameters allow for placement before or after the ground rod has been driven. (A peened-over ground rod is passed through the larger opening and secured in the smaller diameter.)
- Optional locking device prevents the bolt from loosening.
- Bronze material keeps corrosion to a minimum.
- Optional breakaway features provide for foolproof installation.

Clamps marked UL listed, and with a ground wire range of #12–1/0 solid or stranded, are listed as suitable for direct burial and the following ground wire combinations:

Single wire - #12 AWG–1/0 AWG

Two like wires - #6, #10, #12 AWG

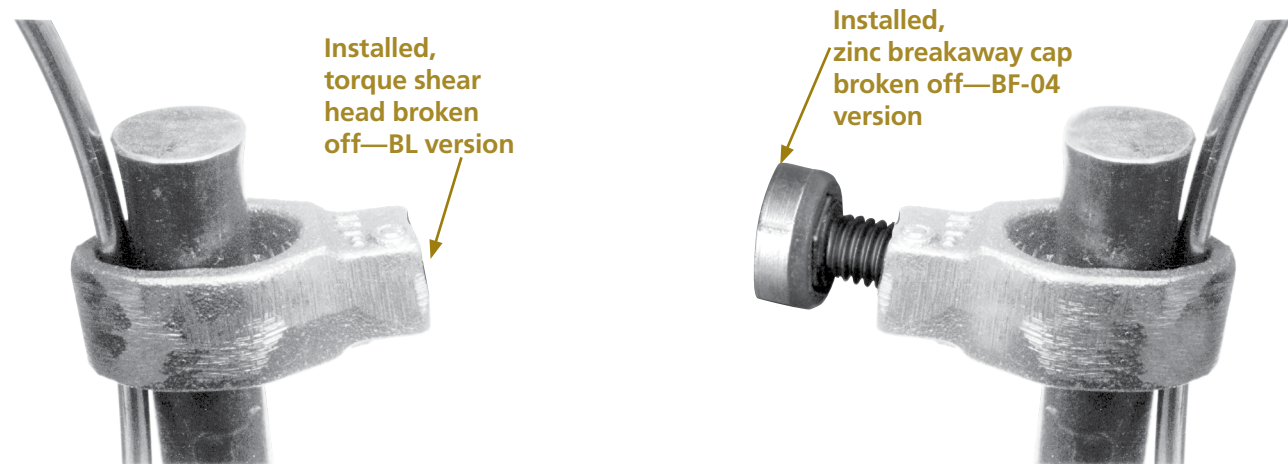
Three like wires - #6, #10, #12 AWG

Unlike wire combinations:

Two #2 AWG with one #6 AWG

One or two #10 AWG with one #12 AWG

One or two #12 AWG with one #10 AWG



At a glance ...

PART NUMBER	GROUND ROD	WIRE SIZE	DISTINGUISHING FEATURES	LISTINGS
EM-1DB	1/2"	#12–1/0	None—Standard clamp	cULus, RUS
EM-1DB-BL	1/2"	#12–1/0	Torque shear head, Nonremovable	cULus, RUS
EM-1DB-BF-04	1/2"	#12–1/0	Torque shear head, Removable	RUS
EM-2DB-01	5/8"	#12–1/0	None—Standard clamp	cULus, RUS
EM-2DB	5/8"	#12–1/0	Anti-loosening	cULus, RUS
EM-2DB-BL-01	5/8"	#12–1/0	Anti-loosening, Torque shear head, Nonremovable	cULus, RUS
EM-2DB-BF-03	5/8"	#12–1/0	Anti-loosening, Breakaway cap, Removable	cULus
EM-2DB-BF-04	5/8"	#12–1/0	Anti-loosening, Breakaway cap, Removable, Longer bolt	cULus, RUS
EM-6DB	5/8" & 1/2"	#12–2	Breakaway cap, Anti-loosening, Removable	cULus
EM-6DBP	5/8" & 1/2"	#12–2	None—Standard clamp	cULus
EM-58ZY	5/8"	#6–10	Plated zinc die-cast alloy	None

For Electric Motion Company (EMC) part numbers starting with “EM” please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Ground Rod Clamps

GROUND ROD CLAMP (CONTINUED)

Ordering information

EM-1DB

- 1/2" ground rod clamp
- no breakaway
- no anti-loosening
- accommodates #12–1/0 AWG

Standard packaging: 10/bg, 100/bx, 16 lb/bx.

RUS
Listed

LISTED
84D8



EM-1DB-BL

- 1/2" ground rod clamp
- torque shear head at proper installation torque (nonremovable)
- accommodates #12–1/0 AWG

Standard packaging: 10/bg, 100/bx, 17 lb/bx.

RUS
Listed

LISTED
84D8



EM-1DB-BF-04

- 1/2" ground rod clamp
- torque shear head at proper installation torque (removable with adjustable wrench)
- accommodates #12–1/0 AWG

Standard packaging: 10/bg, 100/bx, 16 lb/bx.

RUS
Listed



EM-2DB-01

- 5/8" ground rod clamp
- no breakaway
- no anti-loosening
- accommodates #12–1/0 AWG

RUS
Listed

LISTED
84D8



EM-2DB

- 5/8" ground rod clamp
- anti-loosening device
- accommodates #12–1/0 AWG

Standard packaging: 10/bg, 100/bx, 16 lb/bx.

RUS
Listed

LISTED
84D8



BONDING &
GROUNDING

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

Ground Rod Clamps

GROUND ROD CLAMP (CONTINUED)

Ordering information

EM-2DB-BL-01

- 5/8" ground rod clamp
- torque shear head at proper installation torque (nonremovable)
- anti-loosening device
- accommodates #12–1/0 AWG

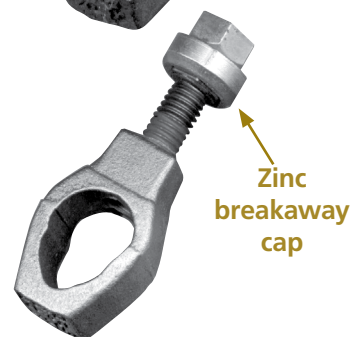
Standard packaging: 10/lb, 100/bx, 19 lb/bx.



EM-2DB-BF-04

- 5/8" ground rod clamp
- long bolt (1")
- zinc breakaway cap at proper installation torque (removable with adjustable wrench)
- anti-loosening device
- accommodates #12–1/0 AWG

Standard packaging: 10/lb, 100/bx, 19 lb/bx.



EM-6DB

- 5/8" and 1/2" ground rod clamp
- 1" long bolt
- anti-loosening device
- zinc breakaway cap at proper installation torque (removable with adjustable wrench).
- accommodates #12–2 AWG solid or stranded.



EM-6DBP

- 5/8" and 1/2" ground rod clamp
- 1" long bolt
- accommodates #12–2 AWG.



5/8" GROUND ROD CLAMP

Plated zinc die cast alloy for mechanical strength and electrical conductivity. Accommodates #6–#10 AWG wire.

Ordering information

EM-58ZY



For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Ground Rod Clamps

TWO-BOLT GROUND ROD CLAMPS FOR GROUND RINGS

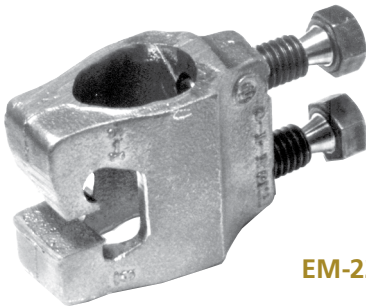
Heavy-duty cast silicon bronze body, headed silicon bronze clamping bolts, and nylon locking collars.

Applications

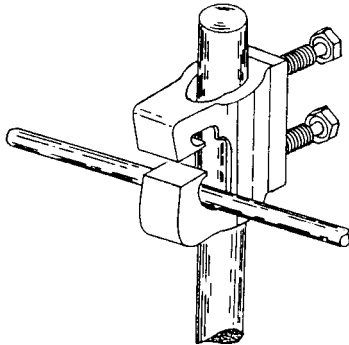
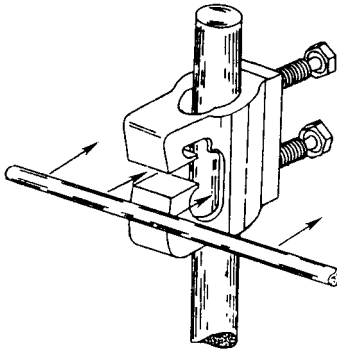
- Ground rings for equipment huts
- Any installation where added security of double bolts is necessary
- 5/8" ground rods

Features

- Can accept ground wires from #10–1/0 AWG
- Available with a front “J” slot to accept #1, #2, or #6 AWG in a continuous “ring” around an equipment hut or building
- Available with pre-set torque shear heads for a pre-determined installation torque and to prevent vandalism
- Nylon locking collar prevents inadvertent loosening of bolts
- Uncomplicated design, craftfriendly, low-cost product



EM-2301-01



Ordering information

EM-2301-01 – 5/8" ground rod clamp, two-bolt type with “J” slot, torque shear heads (150 inch/lbs.), nylon lock collars. Connects #1, #2, or #6 AWG in the “J” slot.

Standard packaging: 5/lbg, 25/lbx, 14 lb/bx.

EM-2301-01NB – Same as above, with no torque shear heads.

EM-2301.75 – Same as EM-2301-01, but accommodates 3/4" ground rod.



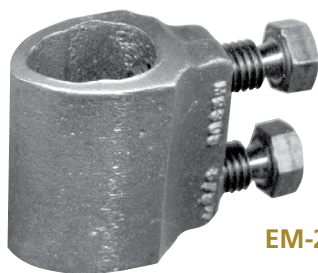
At a glance ...

PART NUMBER	GROUND ROD	WIRE SIZE	DISTINGUISHING FEATURES	LISTINGS
EM-2301-01	5/8"	#1, 2, 6	Torque shear heads	cULus, CSA
EM-2301-01NB	5/8"	#1, 2, 6	None	CSA
EM-2301.75	3/4"	#12–1/0	Torque shear heads	CSA

For Electric Motion Company (EMC) part numbers starting with “EM” please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

Ground Rod Clamps

TWO-BOLT GROUND ROD CLAMPS FOR GROUND RINGS (CONTINUED)



EM-2303

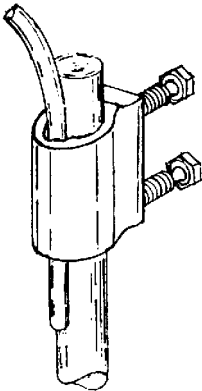


Ordering information

EM-2303 – 5/8" ground rod clamp, two-bolt type with solid body. Torque shear heads at proper installation torque. Connects #12–1/0 AWG solid or stranded parallel to rod. *Standard packaging: 5/lbg, 25/lbx, 12 lb/lbx.*

EM-2303-NB – Same as above, with no torque shear heads.

EM-2303.75.02 – Connects #2/0 to 1/2" or 5/8" rod. Torque shear heads and anti-loosening device.

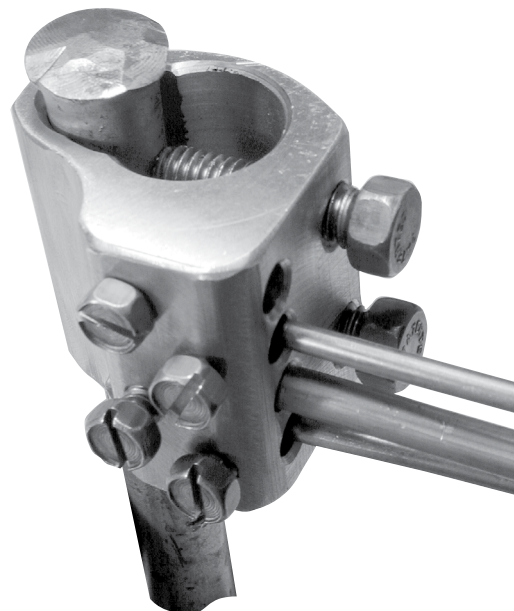
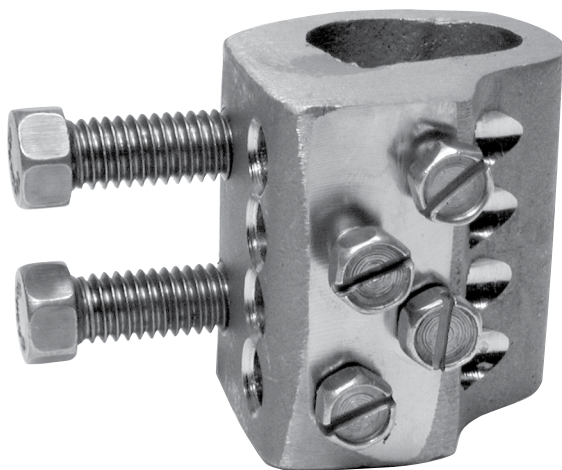


At a glance ...				
PART NUMBER	GROUND ROD	WIRE SIZE	DISTINGUISHING FEATURES	LISTINGS
EM-2303	5/8"	#12–1/0	Torque shear heads	cULus
EM-2303-NB	5/8"	#12–1/0	None	None
EM-2303.75.02	5/8" or 1/2"	#2/0	Torque shear heads, anti-loosening	None
EM-2303-C	5/8"	#12–1/0	Torque shear heads, gel-filled closure	None
EM-23-C			Gel-filled closure only	None



Ground Rod Clamps

HEAVY DUTY GROUND ROD CLAMP



Description

A cast bronze two-bolt ground rod clamp for 5/8" or 3/4" diameter rods that will connect one or a multiple of ground wires. Accepts #2 AWG–#10 AWG.

Features

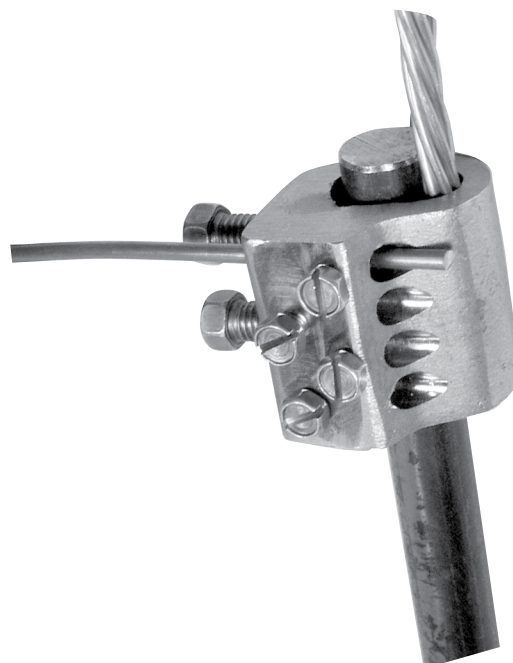
- Cast bronze for superior strength, electrical conductivity, and corrosion resistance.
- Ground wires are captured individually to simplify isolation and location.
- Enlarged opening allows for the "mushroomed" head of a ground rod to pass through without interference.

Applications

Remote sites, central offices, repeater housings, substations — anywhere a single or multiple of ground wires are used.

Ordering information

EM-2306SIET – HD bronze two-bolt clamp for 5/8"–3/4" ground rod.



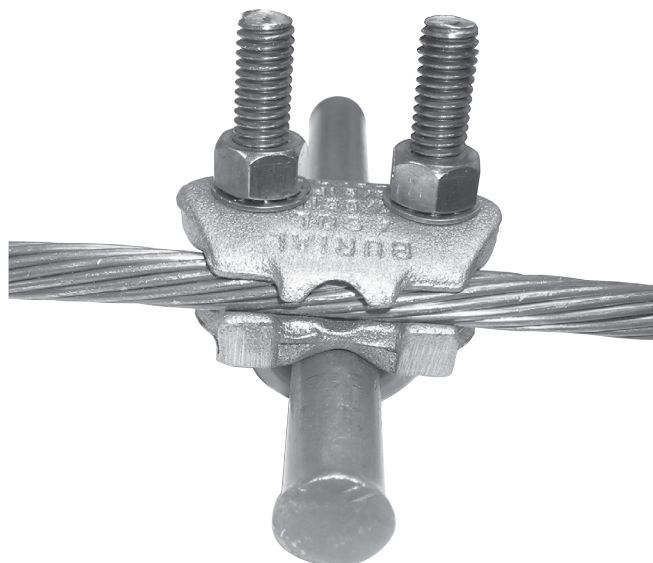
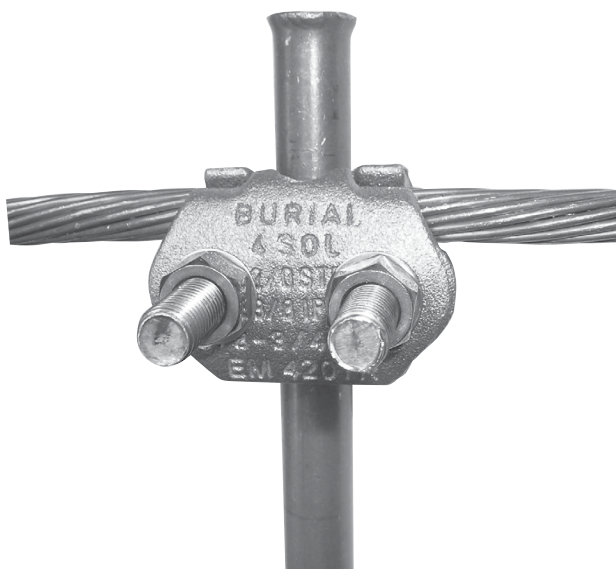
BONDING &
GROUNDING

Ground Rod Clamps

HEAVY DUTY GROUND ROD CLAMP (CONTINUED)

Features

- For parallel or 90° copper cable connections
- Acceptable for direct burial
- Installs with one wrench
- Silicon bronze hardware
- Tube IPS 3/8
- 5/8"-3/4" ground rod size
- Cable size #4-2/0 str (.126-.414)
- Installation torque 240 in./lb.



Ordering information

EM-420TR

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Ground Clamps

UNIVERSAL GROUND CLAMPS

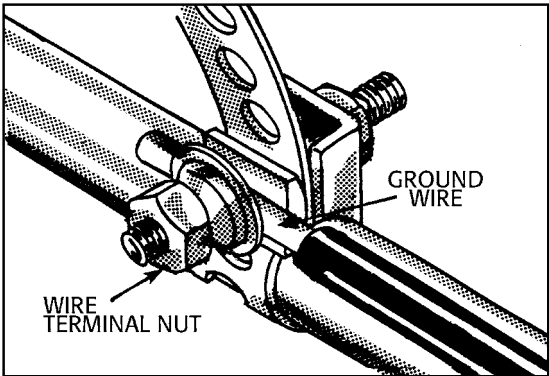
A 12" or 7" copper strip with a brass bolt assembly.

Applications

Connecting ground wires to water pipes, ground rods, and power masts.

Features

- Fits around any size water pipe, ground rod, or power mast
- Works with all the materials commonly used in grounding electrodes, i.e. copper water pipes, galvanized pipes, copper clad ground rods, plain steel ground rods
- Connects all the ground wire sizes from #14 AWG to solid #6 Flat bottom on dome-shaped washer will not nick small gauge wire.
- Can be daisy-chained to be able to fit around very large diameter pipes
- Ground wires can be added or changed without removing ground clamp.
- Tin-plated version available to be used with aluminum power masts
- EM-5510 and EM-5517 versions have two extra flat washers so that small gauge (#10, #12, #14 AWG) wires can be connected between washers while #6 solid bond wire is captured in through hole. Therefore, one ground clamp can be used where two were necessary before.



Ordering information

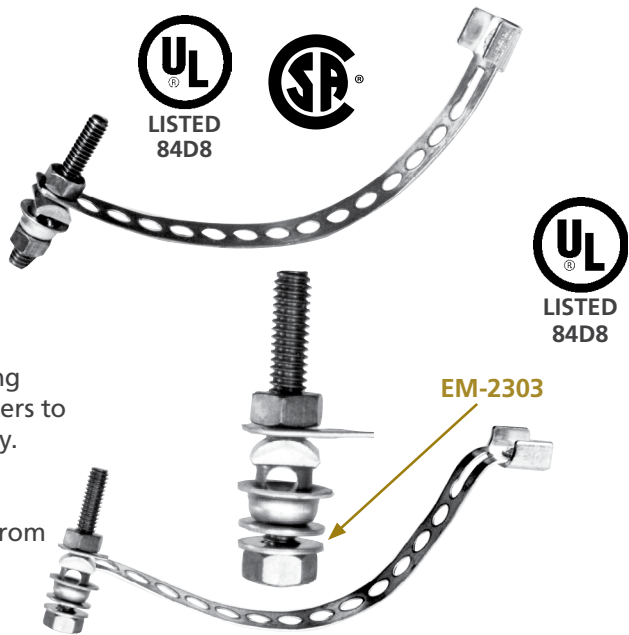
EM-5500 – 12" long strap connects #6–#14 AWG, fits all grounding electrodes 3/8"–31/2" OD.
Standard packaging: 10/lbg, 100/lbx, 15 lb/lbx.

EM-5507 – 7" version connects #6–#14 AWG, fits all grounding electrodes 3/8"–2" OD.
Standard packaging: 10/lbg, 100/lbx, 13 lb/lbx.
Add suffix -T for tin-plated version.

Ordering information

EM-5510 – 12" version, connects #6–#14 AWG wires for grounding electrodes from 3/8" to 31/2" OD. Clamp has two extra flat washers to connect both station ground wires and bond wire simultaneously.
Standard packaging: 10/lbg, 100/lbx, 15 lb/lbx.

EM-5517 – 7" version, same as above, for grounding electrodes from 3/8" to 2" OD.
Standard packaging: 10/lbg, 100/lbx, 13 lb/lbx.
Add suffix -T for tin-plated version.



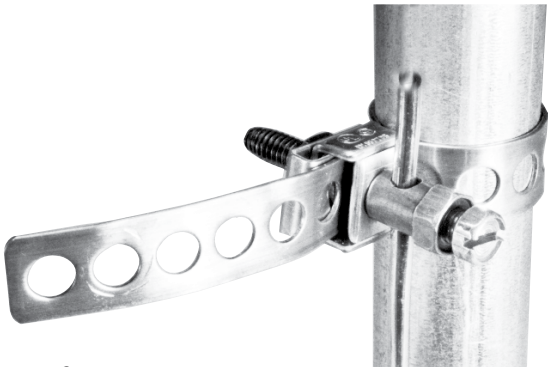
At a glance ...

PART NUMBER	GROUNDING ELECTRODES	WIRE SIZE	LENGTH	DISTINGUISHING FEATURES	LISTINGS
EM-5500	3/8"–3-1/2" OD	#6–#14 AWG	12"		CSA, UL
EM-5507	3/8"–2" OD	#6–#14 AWG	7"		CSA, UL
EM-5510	3/8" to 3-1/2" OD	#6–#14 AWG	12"	extra flat washers	UL
EM-5517	3/8" to 2" OD	#6–#14 AWG	7"	extra flat washers	UL

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

Ground Clamps

UNIVERSAL GROUND CLAMP WITH CLIP NUT



A perforated copper strap with a threaded clip and bronze bolt assembly. Offered in lengths of 7, 9, 12, or 14 inches.

Application

Connecting ground wires to water pipes, ground rods, and power masts.

Features

- Fits around any size water pipe, ground rod, or power mast.
- Works with all the materials commonly used for grounding electrodes, i.e., copper water pipes, galvanized pipes, copper clad ground rods, plain steel ground rods.
- Connects all the ground wire sizes from #14–#6 AWG solid or stranded.
- Can be daisy-chained to be able to fit around very large diameter pipes.
- Ground wires can be added or changed without removing ground clamp.
- Tin-plated version available to be used with aluminum power masts.
- Clamp is installed and wire is attached from the same side, making application easier in confined spaces.
- Available with a slotted ground wire hole to accommodate two wires simultaneously.
- Available as “suitable for direct burial.”

Ordering information

EM-5907 7-inch strap, for grounding electrodes 3/8"–2" diameter.

Standard packaging: 10/bg, 100/bx, 13 lb/bx.

EM-5907-2 7-inch strap, for grounding electrodes 3/8" – 2" diameter, larger hole accommodates #2–14 AWG.

EM-5909 9-inch strap, for grounding electrodes 3/8"–2-3/4" diameter.

Standard packaging: 10/bg, 100/bx, 15 lb/bx.

EM-5912 12-inch strap, for grounding electrodes 3/8"–3 1/2" diameter.

Standard packaging: 10/bg, 100/bx, 17 lb/bx.

EM-5914 14-inch strap, for grounding electrodes 3/8"–4" diameter.

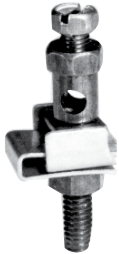
Standard packaging: 10/bg, 100/bx, 18 lb/bx.

EM-5924 24-inch strap, for grounding electrodes 3/8"–6.5" diameter.

Add suffix -T for tin-plated version.

Suffix

–S added to any of the above part numbers denotes a slotted ground wire hole to accommodate two ground wires simultaneously (#6 AWG with a #10 AWG).



At a glance . . .

PART NUMBER	GROUNDING ELECTRODES	WIRE SIZE	LENGTH	DISTINGUISHING FEATURES	LISTINGS
EM-5907	3/8"–2" OD	#6–#14 AWG	7"		cULus
EM-5907-2	3/8"–2" OD	#2–#14 AWG	7"	larger ground wire hole	cULus
EM-5909	3/8"–2-3/4" OD	#6–#14 AWG	9"		cULus
EM-5912	3/8"–3-1/2" OD	#6–#14 AWG	12"		cULus
EM-5914	3/8"–4" OD	#6–#14 AWG	14"		cULus
EM-5924	3/8"–6.5" OD	#6–#14 AWG	24"		cULus

For Electric Motion Company (EMC) part numbers starting with “EM” please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Ground Clamps

UNIVERSAL GROUND CLAMPS

For ground wire sizes up to #2 stranded AWG

Perforated, tin-plated copper straps with threaded clip and bronze bolt assembly. They are available with a smooth strap, or with teeth to bite into the grounding electrode.

Application

Connecting ground wires to water pipes, ground rods, power masts, and conduits.

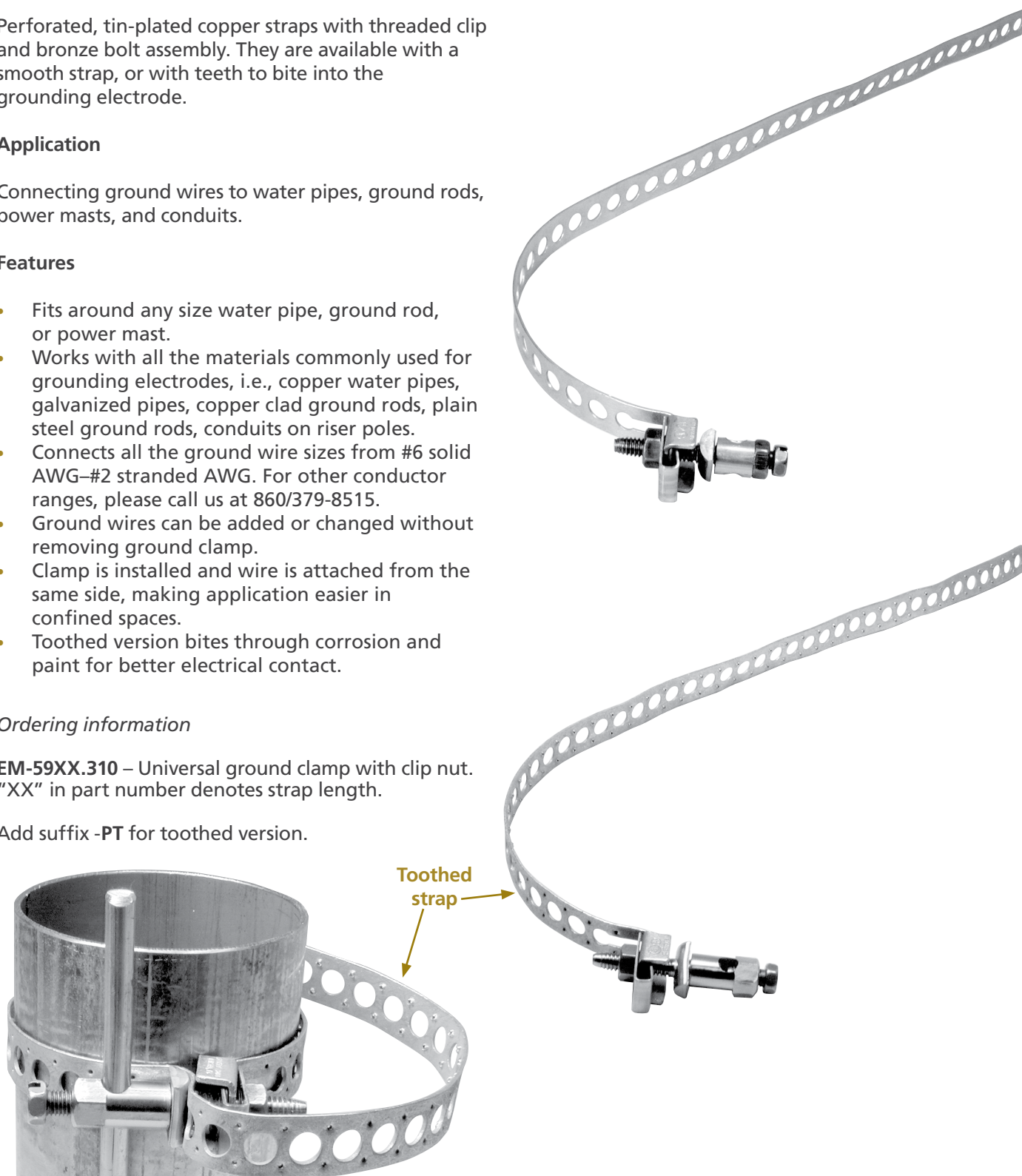
Features

- Fits around any size water pipe, ground rod, or power mast.
- Works with all the materials commonly used for grounding electrodes, i.e., copper water pipes, galvanized pipes, copper clad ground rods, plain steel ground rods, conduits on riser poles.
- Connects all the ground wire sizes from #6 solid AWG–#2 stranded AWG. For other conductor ranges, please call us at 860/379-8515.
- Ground wires can be added or changed without removing ground clamp.
- Clamp is installed and wire is attached from the same side, making application easier in confined spaces.
- Toothed version bites through corrosion and paint for better electrical contact.

Ordering information

EM-59XX.310 – Universal ground clamp with clip nut.
"XX" in part number denotes strap length.

Add suffix **-PT** for toothed version.



Clamps

CLAMP FOR PIPE AND TUBING

Plated zinc die cast alloy for mechanical strength and electrical conductivity. 1/2"-1" diameter. #6 AWG-#2 AWG wires.

Ordering information

EM-2830Z



DREWES METER BOX CLAMP

With toothed strap and clip nut, designed to attach to the hub of an electrical meter box.

Features

- Will not damage the factory-painted surface of meter box
- Will not collapse the box because it mounts on the strongest part of the box, the hub
- Neat low profile, inconspicuous appearance
- Does not inhibit entry to meter box
- Accommodates any cylindrical hub mounting
- Perforations on strap bite through corrosion and paint for better electrical contact.
- Accommodates ground wires #14-#6 AWG
- Simple two-piece construction for easy installation
- A copper and brass material for high conductivity
- Tin plated for corrosion resistance



Ordering information

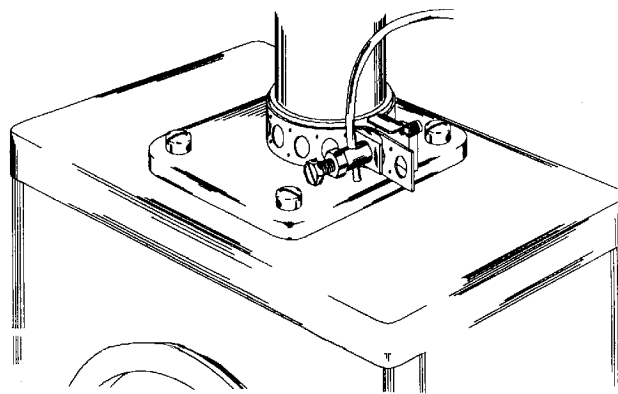
EM-5907PT – 7" strap, #12-#16 AWG, 1/2"-2" OD

Standard packaging: 10/lb, 100/bx, 14 lb/bx.

EM-5912PT – 12" strap, #12-#6 AWG, 1/2"-3 1/2" OD

Standard packaging: 10/lb, 100/bx, 17 lb/bx.

EM-59XXPT – XX = length of strap (1"-120"), #12-#6 AWG, 1/2"-38" OD



Meter Box Clamps

METER BOX CLAMPS WITH BOTTOM-TIGHTENING GROOVE CONTACT POINT

Description

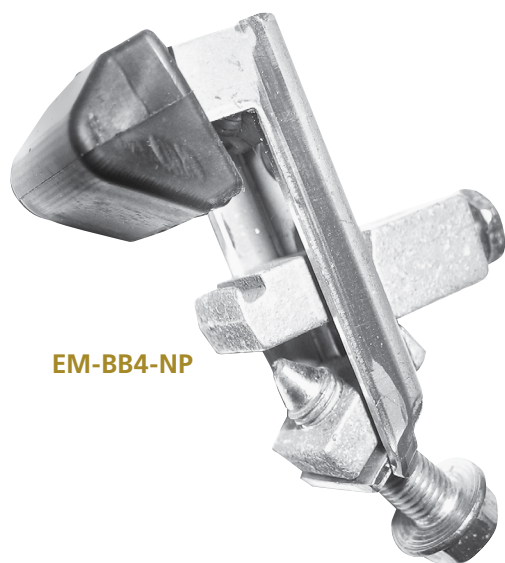
Meter box bonding and grounding connector.

Application

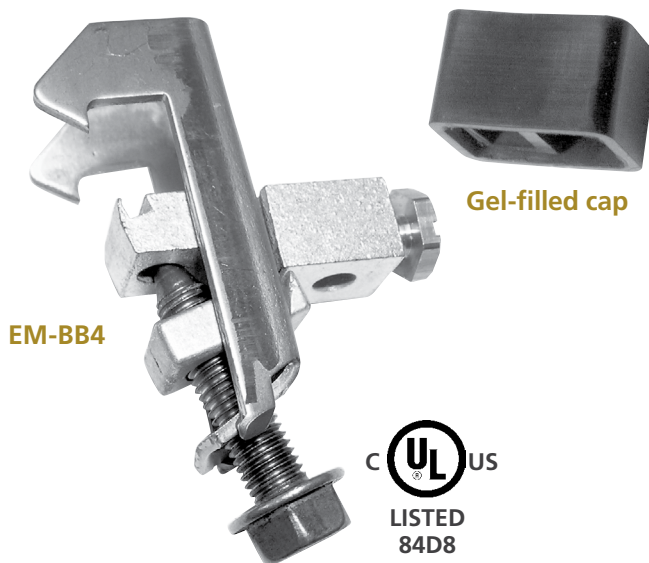
Bonding and grounding telco and CATV to power ground.

Features

- Stainless steel to reduce corrosion
- Applies with a standard terminal wrench—no special tools
- Gel-filled cap prevents corrosion on the locating points.
- UL listed for public safety
- Easy, foolproof installation
- Mounts on the side—does not interfere with the cover or collapse the sides
- Small and inconspicuous
- Accommodates #6–#14 AWG solid or stranded ground wire



EM-BB4-NP



EM-BB4

Gel-filled cap



Ordering information

EM-BB4-NP – Meter Box Clamp, silicon bronze bolt, bottom-tightening groove contact point, alternate cap (not gelfilled) to cover the prongs

EM-BB4 – Meter Box Clamp, silicon bronze bolt, bottom-tightening groove contact point, gel-filled cap

For more meter box clamps, see the IntersystEM-Bonding Terminal section, starting on page G94.

For Electric Motion Company (EMC) part numbers starting with “EM” please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

Meter Box Clamps

METER BOX CLAMPS WITH TOP-TIGHTENING GROOVE CONTACT POINT

Description

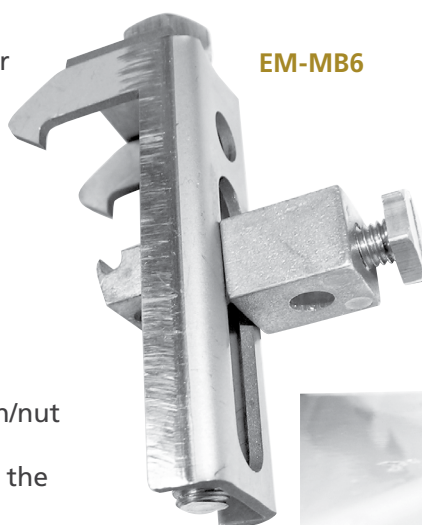
Meter box bonding and grounding connector

Application

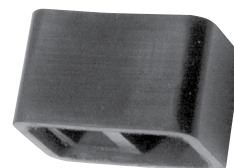
Bonding and grounding telco and CATV to power ground.

Features

- Stainless steel and copper alloy to reduce corrosion.
- Applies with a standard terminal wrench/nut runner—no special tools.
- Gel-filled cap helps prevent corrosion at the piercing points.
- Easy, foolproof installation.
- Mounts on the side—does not interfere with the cover or collapse the sides.
- Small and inconspicuous.
- Accommodates #6–#14 AWG solid or stranded ground wire.
- Makes electrical contact under the drip cap of the box, on bare, unpainted metal.
- Available with an extra-long body, to accommodate meter boxes with an extended lip on the top cover.



EM-MB6



Gel-filled cap

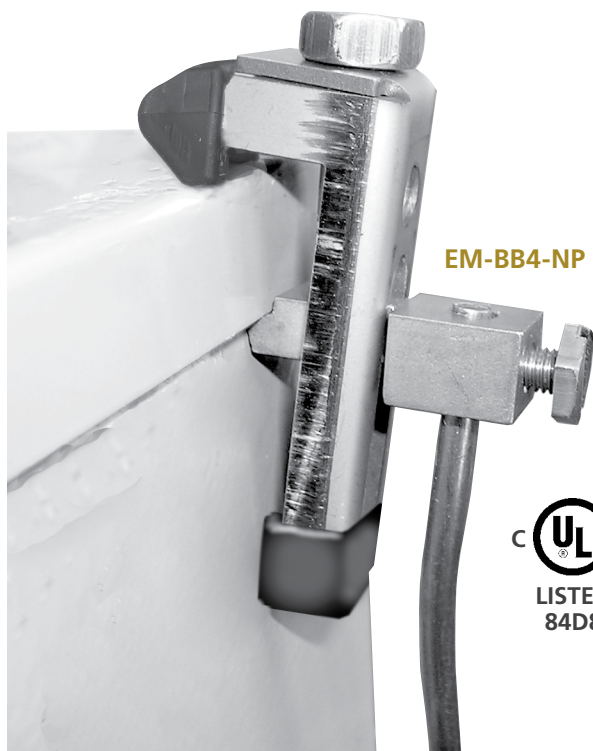


Ordering information

EM-MB6 – Meter Box Clamp with top-tightening groove contact point and gel-filled cap

EM-MB6-NP – Meter Box Clamp with top-tightening groove contact point and alternate cap (not gel-filled) to cover the prongs and bottom.

Add suffix -XL for extra-long body.



EM-BB4-NP



For more meter box clamps, see the Intersystem-Bonding Terminal section, starting on page G94.

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Meter Box Clamps

METER BOX CLAMPS WITH TOP-TIGHTENING SPADE WEDGE CONTACT POINT

Description

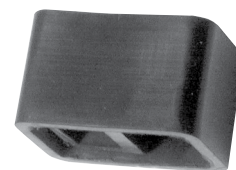
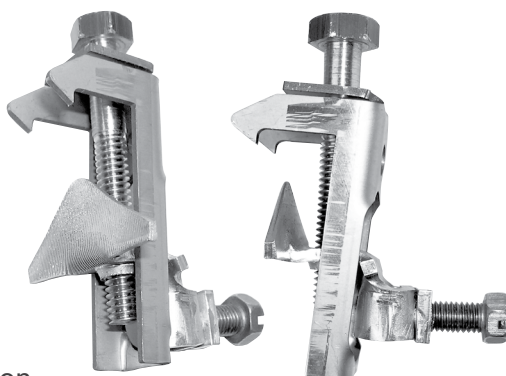
Meter box bonding and grounding connector

Application

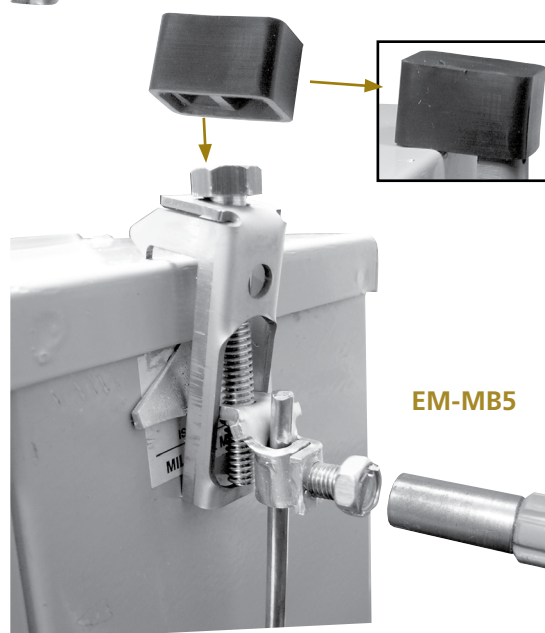
Bonding and grounding telco and CATV to power ground.

Features

- Stainless steel and copper alloy construction to reduce corrosion
- Applies with a standard terminal wrench/nut runner— no special tools
- Gel-filled cap helps prevent corrosion at the piercing points.
- Easy, foolproof installation
- Mounts on the side—does not interfere with the cover or collapse the sides.
- Small and inconspicuous
- Accommodates #6–#14 AWG solid or stranded ground wire
- Makes electrical contact under the drip cap of the box, on bare, unpainted metal
- Available with an extra-long body, to accommodate meter boxes with an extended lip on the top cover



Gel-filled cap



EM-MB5

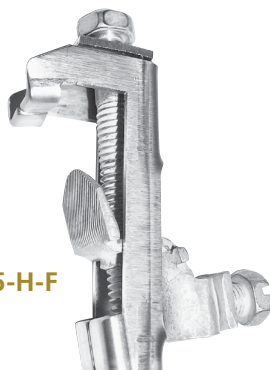
EM-MB5-NP



EM-MB5-XL



EM-MB5-H-F



Ordering information

EM-MB5 – Meter Box Clamp with top-tightening spade wedge contact point and gel-filled cap

EM-MB5-NP – Meter Box Clamp with top-tightening spade wedge contact point and alternate caps (not gel-filled) to cover the prongs and bottom

EM-MB5-H-F – Meter Box Clamp with top-tightening narrow spade wedge contact point and flat top and bottom (no need for caps)

Add suffix -XL for extra-long body.

For more meter box clamps, see the IntersystEM-Bonding Terminal section, starting on page G94.

BONDING &
GROUNDING

For Electric Motion Company (EMC) part numbers starting with “EM” please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

IntersystEM-Bonding

METER BOX GROUND CLAMP FOR INTERSYSTEM-BONDING WITH TOP-TIGHTENING SPADE WEDGE CONTACT POINT, THREE GROUND WIRE CONNECTION POINTS

Description

Meter box bonding and grounding connector for intersystEM-bonding

Application

Bonding and grounding telco and CATV to power ground.

Features

- Stainless steel and copper alloy construction to reduce corrosion
- Applies with a standard terminal wrench/nut runner—no special tools
- Gel-filled cap helps prevent corrosion at the piercing points
- Easy, foolproof installation
- Mounts on the side—does not interfere with the cover or collapse the sides.
- Accommodates #6–#14 AWG solid or stranded ground wire
- Makes electrical contact under the drip cap of the box, on bare, unpainted metal.
- Available with an extra-long body, to accommodate meter boxes with an extended lip on the top cover



NEC® Section 250.94 Requirements

- An intersystEM-bonding termination for connecting intersystEM-bonding and grounding connectors required for other systems shall be provided external to enclosures at the service equipment and at the disconnecting means for any additional buildings or structures.
- The intersystEM-bonding termination device shall not interfere with opening a service or metering equipment enclosure.
- **The intersystEM-bonding termination shall have the capacity for connection of not less than three intersystEM-bonding conductors.**

Ordering information

EM-MB5-3 – Meter Box Ground Clamp

Add suffix **-NP** for alternate caps (not gel-filled) to cover the prongs and bottom.

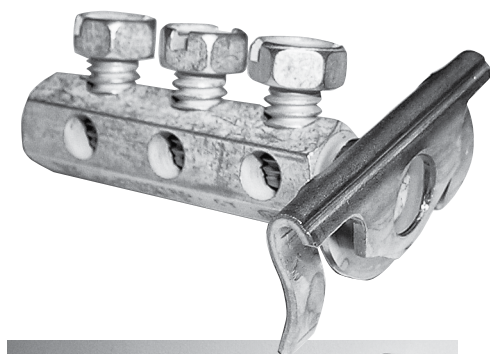
Add suffix **-XL** for extra-long body.

Add suffix **-H** for narrow wedge.

Add suffix **-F** for flat points (top and bottom).

IntersystEM-Bonding

INTERSYSTEM-BONDING TERMINAL SERVICE DISCONNECT BOX CONNECTOR

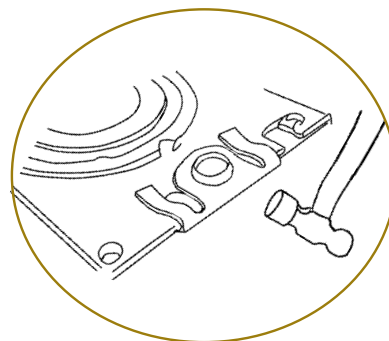


NEC® Section 250.94 Requirements

- An intersystEM-bonding termination for connecting intersystEM-bonding and grounding connectors required for other systems shall be provided external to enclosures at the service equipment and at the disconnecting means for any additional buildings or structures.
- The intersystEM-bonding termination device shall not interfere with opening a service or metering equipment enclosure.
- **The intersystEM-bonding termination shall have the capacity for connection of not less than three intersystEM-bonding conductors.**

Features

- Can be used on galvanized steel or powder-coated steel
 - Becomes first choice for telephone, cable TV, or broadband
1. The service disconnect box connector is to be applied only to either side of the box, including both top and bottom of the box, never to the front.
 2. Position the connector at a side of the service disconnect box. Insert the pointed part of the clamp (without the bolt) between the weld points and tap the wedge into place, using a small hammer.
 3. Insert the bolt into the clamp threads and turn clockwise. Tighten to 20 in-lb.
 4. Secure ground wire in appropriate hole.
 5. This device can be used with solid and stranded 6–14 AWG copper ground conductors.



BONDING &
GROUNDING



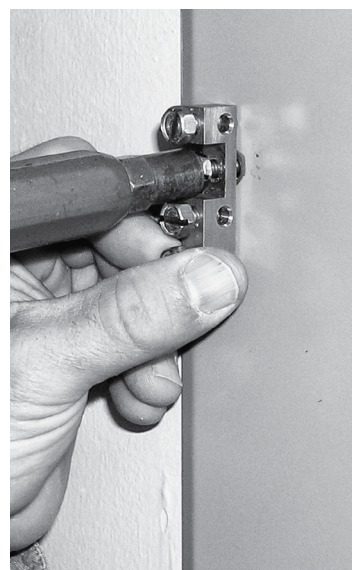
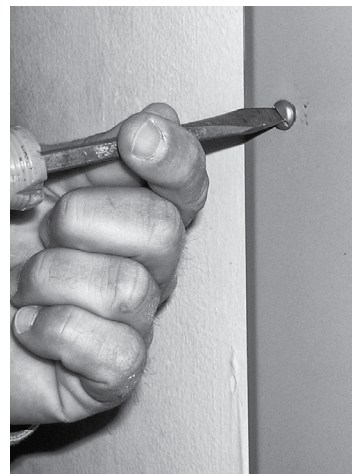
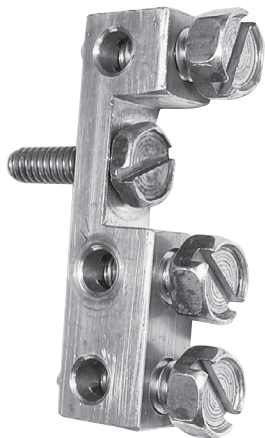
Ordering information

EM-SDS-SUB-3 – Service Disconnect Box Connector

For Electric Motion Company (EMC) part numbers starting with “EM” please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

IntersystEM-Bonding

SERVICE DISCONNECT BOX GROUND CONNECTOR FOR INTERSYSTEM-BONDING



Description

A ground connector that mounts to the front of the service disconnect cabinet. Provides connection holes for three ground wires.

Application

Provides convenient access to ground for telephone systems, cable TV, or broadband. One location, all systEM-grounds commonly connected.

Features

- Meets 2008 NEC (see left)
- Becomes first choice for grounding when installed
- Easily installed
- Remove one cover screw, replace with new screw and connector body.
- Accommodates #6-#14 AWG

Ordering information

EM-SDF-B-3 – Service disconnect box ground connector

Underground Hardware

CABLE RACK BOND CLAMPS

A mechanically galvanized steel clamp assembly.

Application

For use when bonding cable racks to a ground point common with other hardware to aid in corrosion prevention.

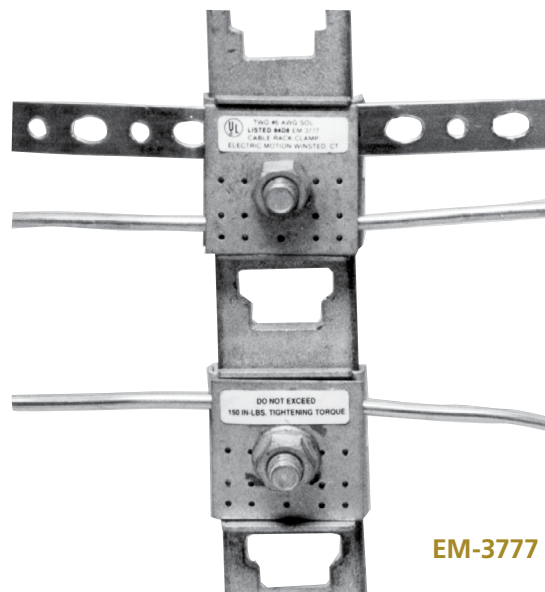
Features

- For use with all standard cable racks
- Works with a variety of conductors, i.e., solid or stranded #6AWG, bonding ribbons, and round or flat braid
- Eliminates "sandwiching" the conductor between two flatwashers
- Can be used with one conductor, or to connect two conductors
- Easily installed by hanging the clamp in a hook hole, inserting the conductor(s) and tightening
- Mechanically zinc plated for corrosion resistance

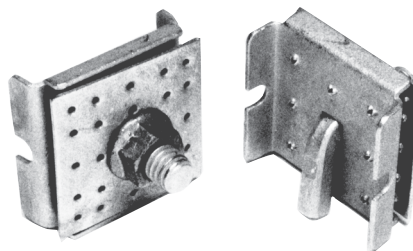
Ordering information :

EM-3777 – for bonding ribbon or #6 AWG wire to cable racking

Standard packaging: 10/bg, 100/bx, 19 lb/bx

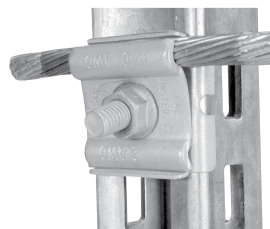


EM-3777



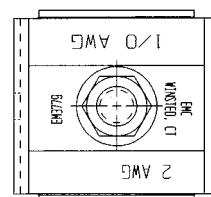
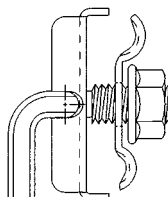
EM-3778 – for #1 & #2 AWG wire

Standard packaging: 100/bx, 25 lb/bx



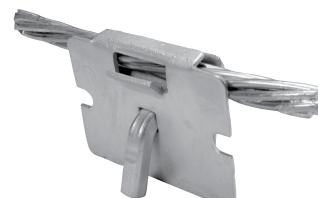
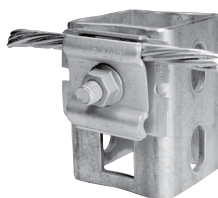
EM-3779 – for Unistrut P16F cable entrance facilities, #1 & #2 AWG wire

Standard packaging: 100/bx, 18 lb/bx



EM-3779-1 – for Unistrut P21H cable entrance facilities, 2-1/4" and 1-3/4"; flat back plate, with extra tang to keep back plate from slipping out of place

Standard packaging: 100/bx, 18 lb/bx



BONDING &
GROUNDING

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

Underground Hardware

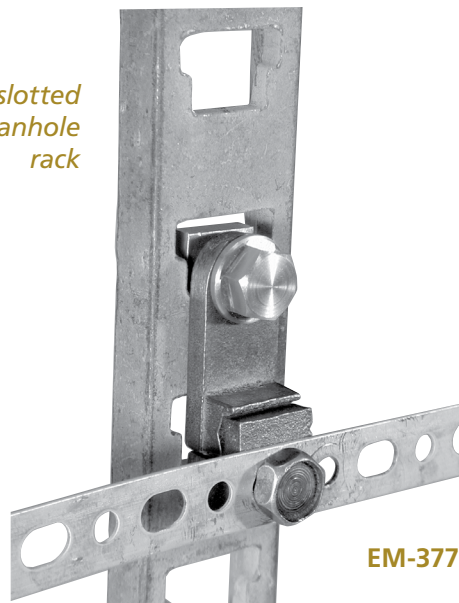
CABLE RACK CLAMPS

For T-slotted underground manhole racks and Unistrut P16F and P21H racks (both clamps fit all racks). For ground wires #6 through #1/0 AWG, 3/8" plain bonding ribbon, and perforated bonding ribbon.

Ordering information

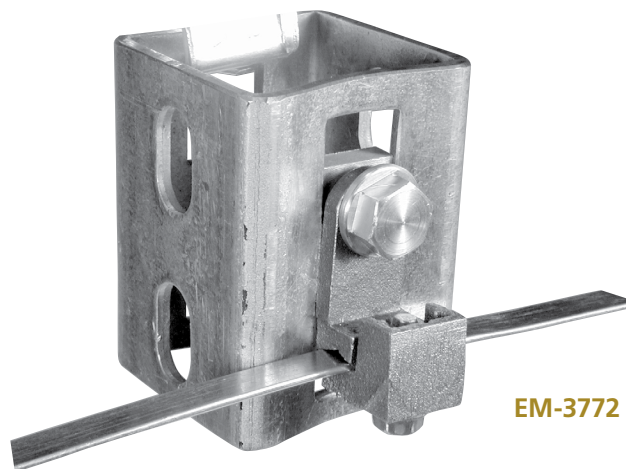
EM-3771 – Cable Rack Clamp with side-mounted 5/16" bolt for clamping conductor.

*T-slotted
manhole
rack*



EM-3771

EM-3772 – Cable Rack Clamp with bottom-mounted 5/16" bolt for clamping conductor. Add suffix -T for tin plating.



EM-3772

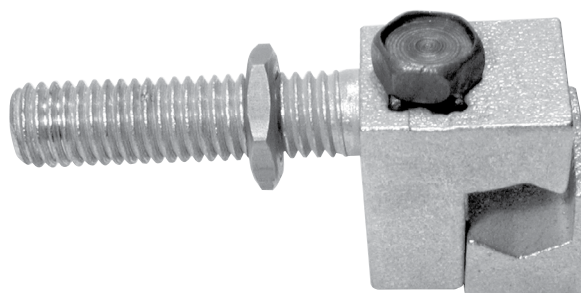
either Unistrut rack

CABLE RACK BOND CLAMP

For ground wires #3 AWG solid through #4/0 AWG stranded. Tinned.

Ordering information

EM-3773 – Cable Rack Bond Clamp



For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

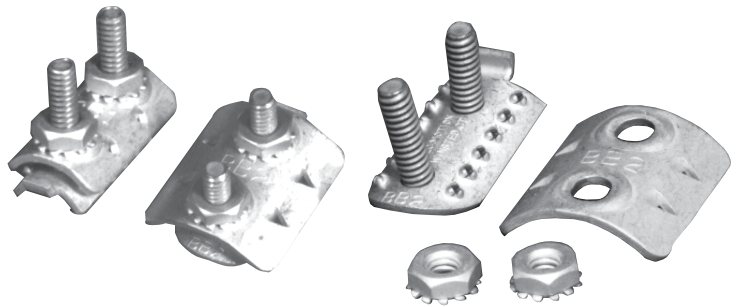


B Bonds

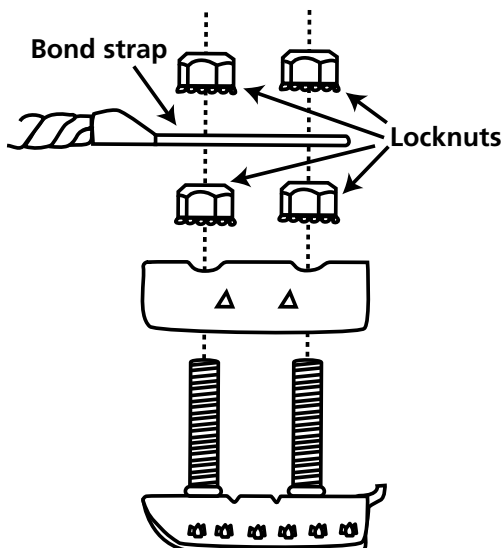
B BOND CLAMPS – DOUBLE STUD

Features

- Tin-plated bronze and copper construction for high conductivity
- 3/8" nuts fit standard terminal wrench.
- Piercings in bottom plate penetrate Mylar lining on inner surface of shield.
- Can be used with or without punching holes in sheath
- When cable shield is tabbed and punched, one size works on all cables.
- Two studs prevent loosening of connections due to counterclockwise movement of bond strap.
- Two studs offer lower resistance and higher current carrying capacity. This enables use of a smaller size shield connector.
- Two studs offer higher pullout strength.



See page G140 for the double hole punch to go with these double stud B bonds.

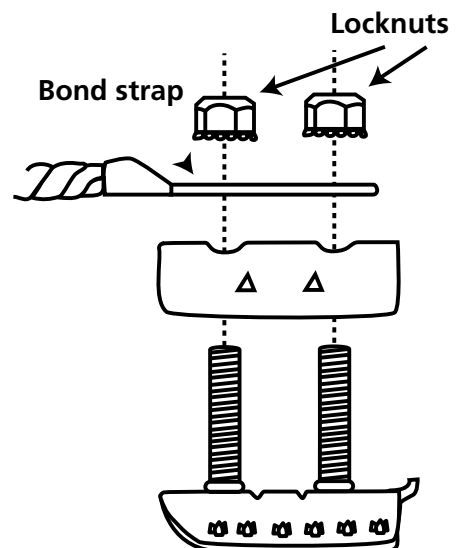


Ordering information

Double stud with double nut per stud

EM-2BBM – up to .5" cable
EM-2BB1 – .5"–.8" cable
EM-2BB2 – .8"–1.6" cable
EM-2BB3 – 1.6"–up

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Ordering information

Double stud with single nut per stud

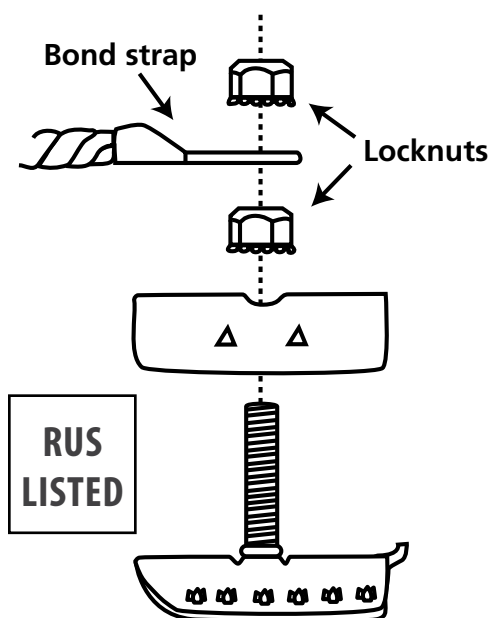
EM-1BBM – up to .5" cable
EM-1BB1 – .5"–.8" cable
EM-1BB2 – .8"–1.6" cable
EM-1BB3 – 1.6"–up

B Bonds

B BOND CLAMPS – SINGLE STUD

Features

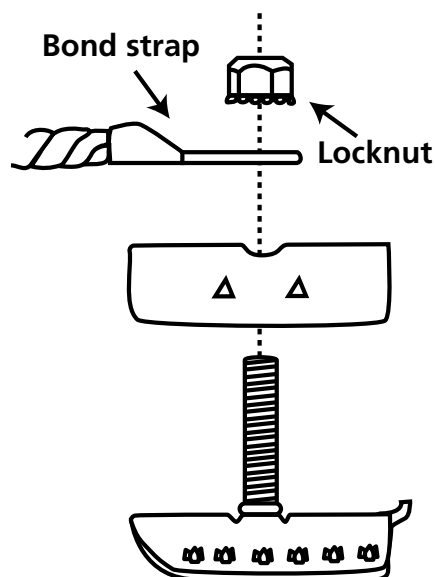
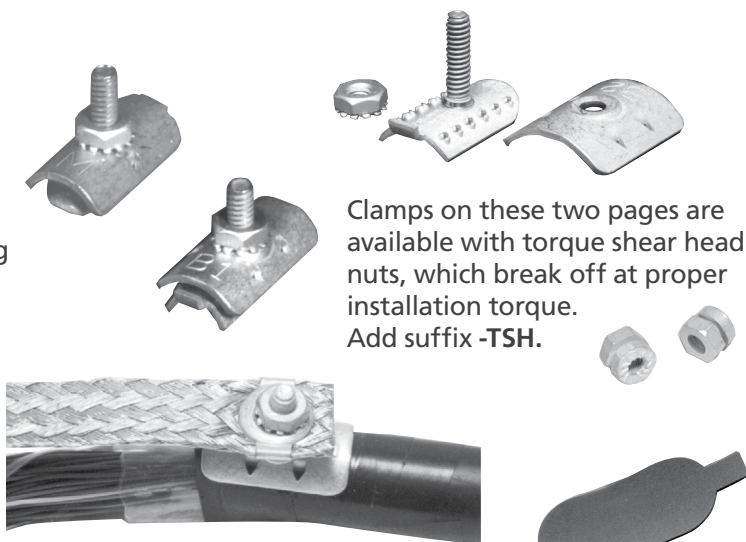
- Tin-plated bronze and copper construction for high conductivity
- 3/8" nuts fit standard terminal wrench.
- Piercings in bottom plate penetrate Mylar lining on inner surface of shield.
- Can be used with or without punching holes in sheath
- When cable shield is tabbed and punched, one size works on all cables.



Ordering information

Single stud with double nut per stud

EM-20BM – up to .5" cable. *Standard packaging: 1/bg, 10/pkg, 500/bx, 22 lb/bx*
EM-20B1 – .5"–.8" cable. *Standard packaging: 1/bg, 10/pkg, 500/bx, 23 lb/bx*
EM-20B2 – .8"–1.6" cable. *Standard packaging: 1/bg, 10/pkg, 500/bx, 28 lb/bx*
EM-20B3 – 1.6"–up. *Standard packaging: 1/bg, 10/pkg, 500/bx, 27 lb/bx*



Ordering information

Single stud with single nut per stud

EM-10BM – up to .5" cable. *Standard packaging: 1/bg, 500/bx, 20 lb/bx*
EM-10B1 – .5"–.8" cable. *Standard packaging: 1/bg, 500/bx, 22 lb/bx*
EM-10B2 – .8"–1.6" cable. *Standard packaging: 1/bg, 500/bx, 26 lb/bx*
EM-10B3 1.6"–up. *Standard packaging: 1/bg, 500/bx, 26 lb/bx*

Longer studs: For 1" studs, add suffix -XL1. For 1.1" studs, add suffix -XL1.1.

For optional flat plastic pair saver, add suffix -P.

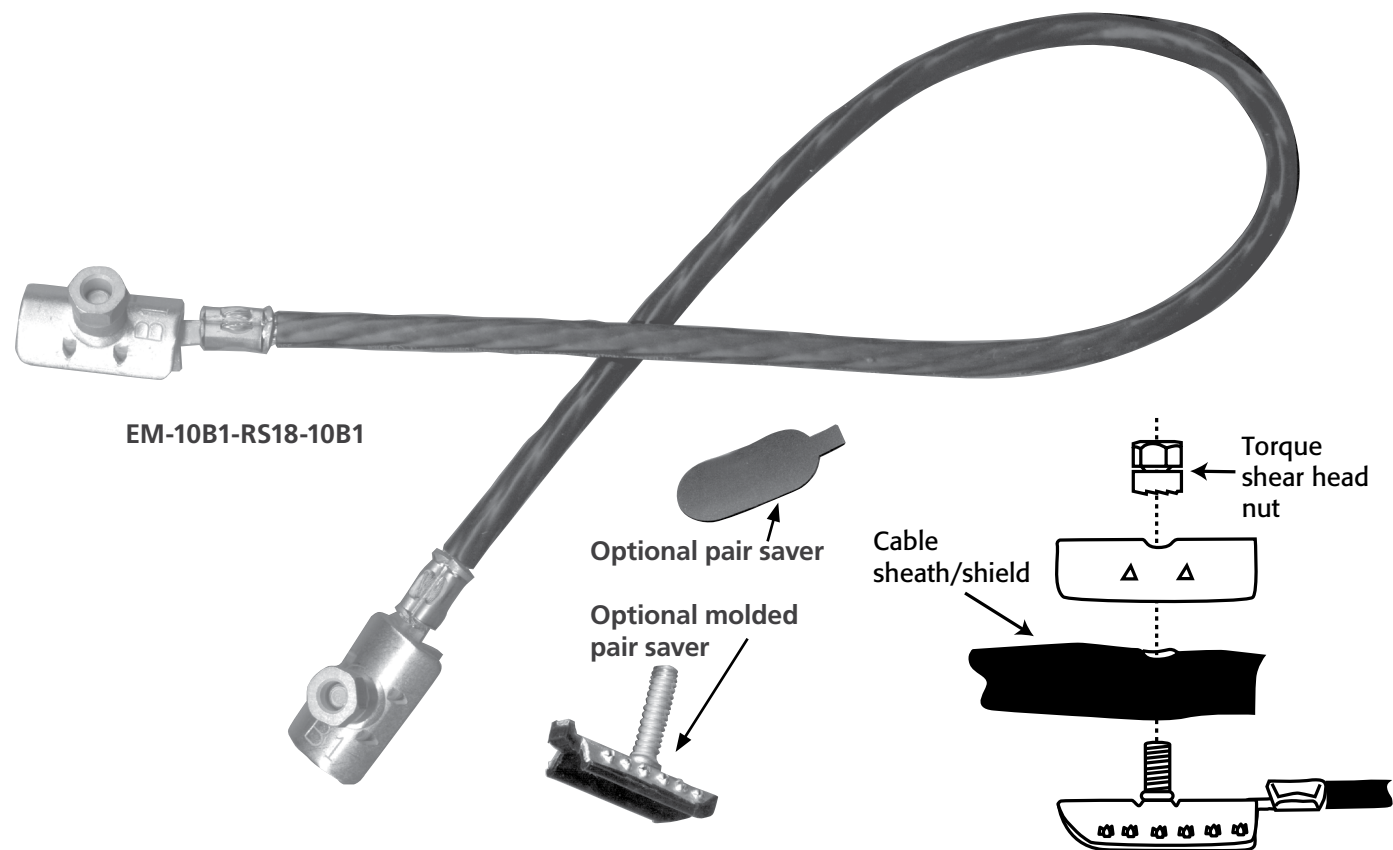
To order the flat plastic pair saver separately, use part number **EM-PSAVER**.



For optional pair saver molded to bottom plate, add suffix -MP.

RS Shield Connectors

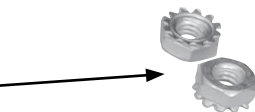
DOUBLE RS B-BOND SHIELD CONNECTOR – WITH ATTACHED HARNESS FOR SPLICE CASES



EM-10B1-RS18-10B1

Description

The bottom plate of a B-Bond shield connector (see variations below) is attached to either end of a #6 AWG harness. Nuts have torque shear heads standard, or add suffix -2 for optional star locknuts.



Part Numbering Variations Matrix

EM-		- RS		-		-		-	
Number of nuts per stud (choose 1 or 2)		Cable shield connector size: <i>M (mini)</i> up to .5" cable. 1 .5"–.8" cable.		<i>L</i> = optional long stud <i>P</i> = optional pair saver <i>MP</i> = optional molded pair saver (molded to bottom plate)		Single stud = <i>OB</i> Double stud = <i>BB</i>		Cable shield connector size: <i>M (mini)</i> up to .5" cable. 1 .5"–.8" cable.	
Single stud = <i>OB</i> Double stud = <i>BB</i>		Length of harness in inches		Number of nuts per stud (choose 1 or 2)		-2 = star locknuts			

Example:
EM-2BBM-RSLP18-2BBM-2

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

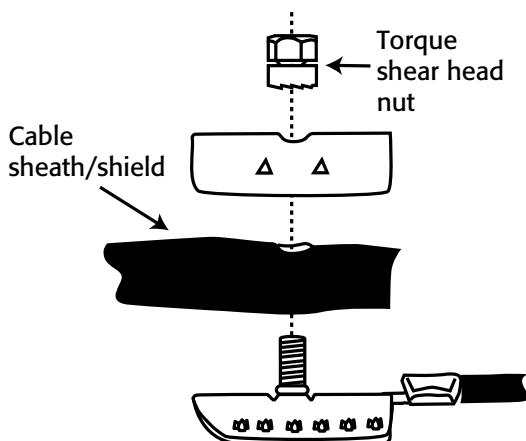


RS Shield Connectors

RS B-BOND SHIELD CONNECTOR – WITH ATTACHED HARNESS FOR NIDS



EM-10BM-RS2.5H



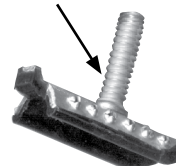
Description

The bottom plate of a Mini B-Bond shield connector (accommodates up to .5" cable) is attached to a 2.5" #6 AWG harness (standard length; others are available), with a hook terminal on the other end. Nuts have torque shear heads standard, or add suffix -2 for optional star locknuts.



Optional pair saver

Optional molded pair saver



Part Numbering Variations Matrix

EM-

Number of
nuts per stud
(choose 1 or 2)

Single stud = **OB**
Double stud = **BB**

M - RS

Length of
harness in
inches

P = optional pair saver
MP = optional molded
pair saver (molded to
bottom plate)

H -

-2 = star
locknuts

Example:
EM-2BBM-RSP2.5H-2

B-BOND SHIELD CONNECTOR – WITH SHORT STUD AND HARNESS

Top plate of 10B1 shield connector (see p. 169) is connected to a #6 AWG harness. The free terminal of the harness has paint-penetrating teeth to bite through powder coating.

Ordering information

EM-10B1/8100-6 HUB 6" harness

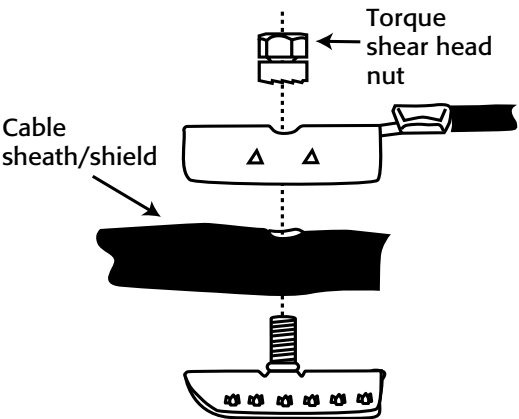
EM-10B1/8100-10 HUB 10" harness



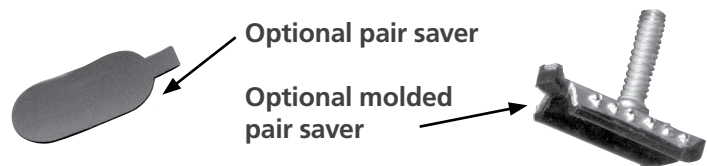
BONDING &
GROUNDING

TS Shield Connectors

TS CABLE SHIELD CONNECTOR WITH ATTACHED HARNESS



Description
The top plate of the TS cable shield connector (see variations below) is attached to a #6 AWG harness, with a #10 stud hole ring terminal on the other end. Nuts have torque shear heads standard, or add suffix -2 for optional locknut washer.



Part Numbering Variations Matrix

EM-				-	TS			
Number of nuts per stud (choose 1 or 2)		Cable shield connector size:			L = optional long stud		Length of harness in inches	
Single stud = OB		M (mini) up to .5" cable.			P = optional pair saver		MP = optional molded pair saver (molded to bottom plate)	
Double stud = BB		1 .5"- .8" cable.						
		2 .8"-1.6" cable.						
		3 1.6"-up.						

Example:
EM-2BBM-TSLP18

U-Shaped BSW Shield Connectors

U-SHAPED BURIED SERVICE WIRE SHIELD CONNECTORS – WITH OPTIONAL PAIR PROTECTION

Electric Motion's shield connector, complete with pair protection, is designed to provide customers with a versatile, craft-friendly system for terminating all types of industry standard shielded buried service wires.

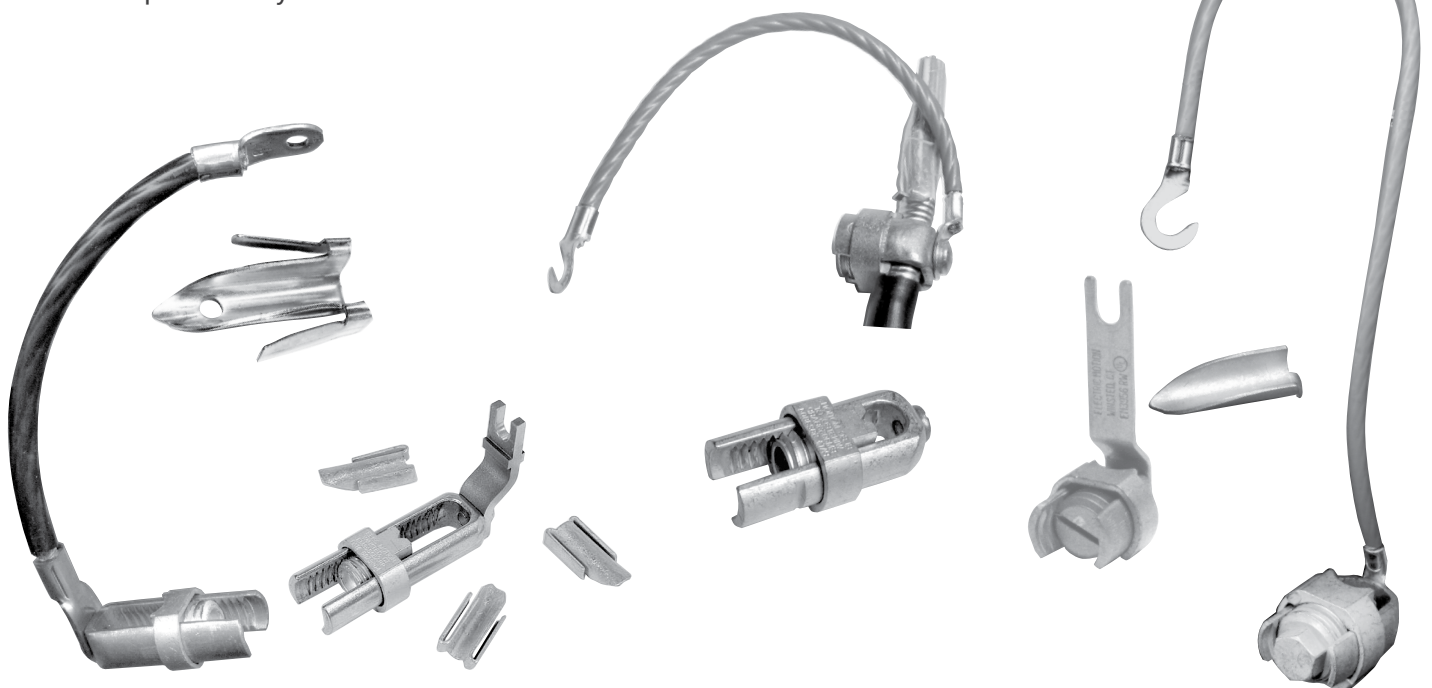
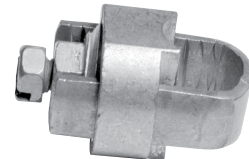
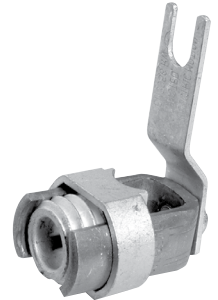
Applications

- Permits easy and reliable termination of metallic shields at network interface devices (NIDs), station protector devices, pedestals, optical network unit and terminal locations.
- Facilitates termination of all corrugated or flat-shield buried service wire designs.

Features

- Multi-functional and customized for customer's specific application.
 - Preparation of the buried service wire and installation of each connector follows the same basic procedures.
 - Results in faster on-site connections. Provides anti-crush protection and excellent strain relief.
 - Connectors stay securely fastened long after connections are made.
 - Provides superior pullout strength during subsequent wiring or repair activity.

- Pairs are insulated from sharp edges of metallic shield; virtually eliminates metallic troubles at the shield/connector interface.
- Pair protectors are available to accommodate the various shield designs, multiple or single wire applications, and different wire sizes: 2, 3, 4, 5, 6, & 12 pairs, 19/22 AWG.
- Available in fork, hook, ring, and flag terminal end configurations.
- All metallic components are constructed of brass, tin-plated or die-cast zinc to provide low-resistance connections even in the harshest outside plant environments.
 - Strong, corrosion-resistant components
 - Re-useable
 - High quality



BONDING &
GROUNDING

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

U-Shaped BSW Shield Connectors

EM-3955 SERIES – CONNECTORS WITH FLOATING BONDING HARNESSSES

Ordering information

EM-3955-10S U-shaped BSW connector with 6 inches of #10 AWG lead wire and 1-inch long yoke for one or two service wires.

Standard packaging: 10/bg, 100/bx, 11 lb/bx.

Also available: **EM-3955-10L** – Same as above, with 11/2-inch long yoke for multiple service wires.

EM-3955-6L

U-shaped BSW connector with 6 inches of #6 AWG lead wire and 11/2-inch long yoke for multiple service wires.

Standard packaging: 10/bg, 100/bx, 15 lb/bx.

Also available: **EM-3955-6S** – Same as above, with 1-inch long yoke for one or two service wires.



PEDESTAL BURIED SERVICE WIRE – SHIELD CONNECTORS WITH TEETH

Ordering information

EM-3955-10S (BT)

U-shaped BSW connector with 6 inches of #10 AWG lead wire, 1-inch long yoke for one or two service wires, and baby teeth both inside bottom of fork and inside back of pusher ring.

Standard packaging: 100/bx, 10 lb/bx.

EM-3955-10SPB (BT)

Same as above, with pair protector and rectangular boot.

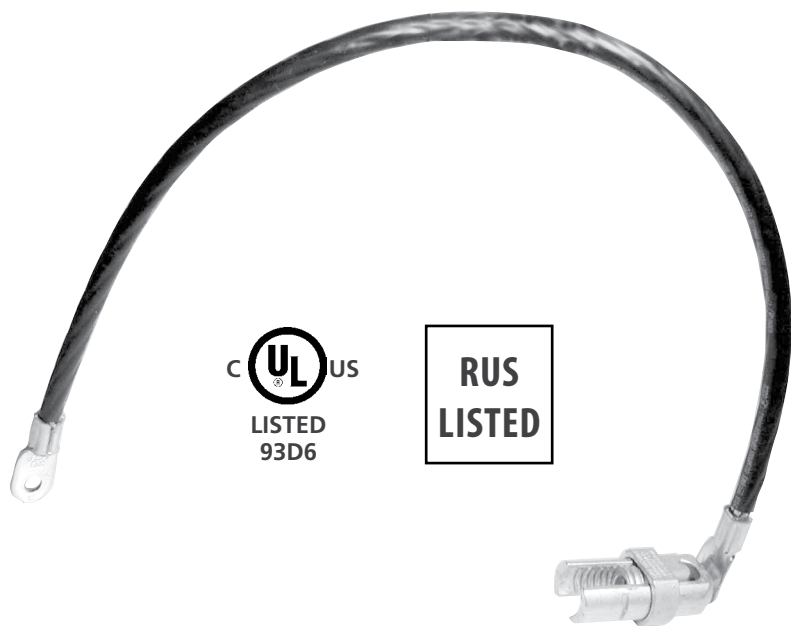
EM-3955-SP (BT)

Just the yoke and pusher ring with baby teeth and pair protector, but without the lead or the boot.



U-Shaped BSW Shield Connectors

EM-3955 SERIES – PEDESTAL BURIED SERVICE WIRE SHIELD CONNECTOR #6 AWG WITH FLOATING BONDING HARNESS

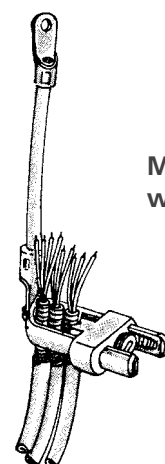


Application

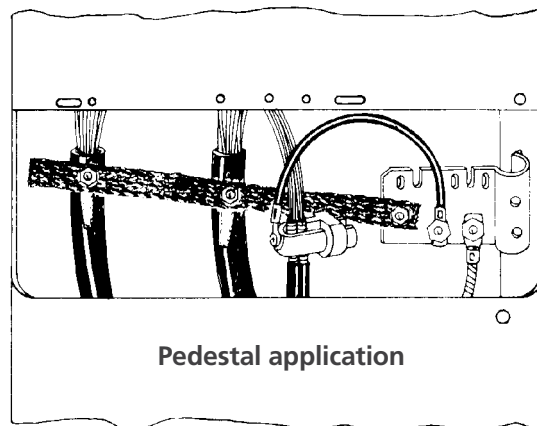
For bonding and grounding buried service wire shields in pedestals.

Features

- Long version of connector allows the installer to stack multiples of buried service wires.
- Connector screw end is removable to allow easy adding of new buried service wires or easy toning.
- #6 AWG allows maximum current capacity.
- Flexible lead allows for bonds to float so connection will not loosen.
- UL and RUS listed for safety



Multiple service wires in one clamp



Pedestal application

Ordering information

EM-3955-6L/8100-15

Connector assembly with 15" #6 AWG lead.
Standard packaging: 00/bx, 23 lb/bx.

EM-3955-6L/8100-36

Connector assembly with 36" #6 AWG lead.
Standard packaging: 100/bx, 39 lb/bx.

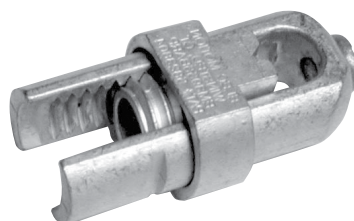
CONNECTOR WITH SCREW

Ordering information

EM-3955-L

Long U-shaped connector with screw for mounting to your own harness or mounting bracket. Can accommodate 1–3 BSWs.

Standard packaging: 10/bg, 100/bx, 9 lb/bx.

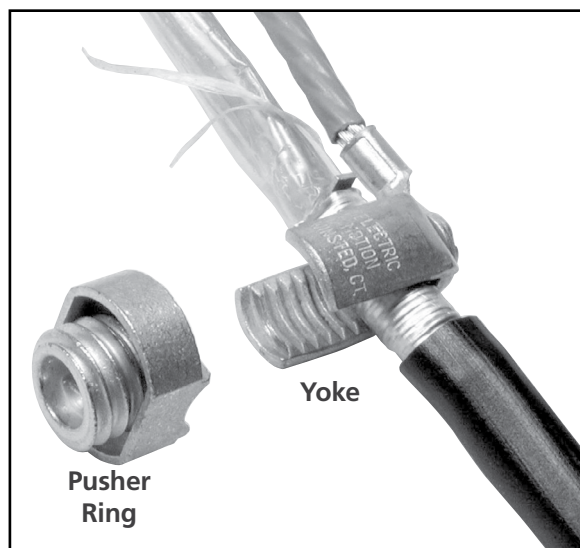


BONDING &
GROUNDING

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

U-Shaped BSW Shield Connectors

EM-3956 SERIES – SHORT U-SHAPED BURIED SERVICE WIRE CONNECTORS WITH FLOATING BONDING HARNESSSES



Order from the connectors listed on the next few pages, or customize your own connectors:

- Wire gauge can be changed with the first number suffix: **EM-3956-S** (#10, #6), e.g., **EM-3956-10S**.
- Yoke length can be changed with the first letter suffix: **EM-3956-10S** (S = short, L = long), e.g., **EM-3956-10S**.
- Wire length can be changed by adding a number suffix: **EM-3956-10S-18** (inches), e.g., **EM-3956-10S-18**.
- Terminal type can be changed by adding a letter suffix: **EM-3956-10S-18-R** (R = ring, F = fork, H = hook), e.g., **EM-3956-10S-18-F**.



F = fork



H = hook



R = ring



FL = flag

CONNECTOR WITH 6" LEAD, #10 AWG

Ordering information

EM-3956-10S

Short U-shaped BSW shield connector with 6 inches of #10 AWG flexible lead wire, hook terminal.

Standard packaging: 10/lbg, 100/lbx, 7 lb/lbx.

EM-3956-10SP

Above connector with pair protector.

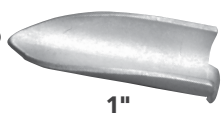


OPTIONAL ACCESSORIES

Pair Protector

Ordering information **EM-3905** Standard packaging: 100/lbg, 1000/lbx, 6 lb/lbx.

Also available singly with any connector shown by adding the suffix **-P** to the part number.

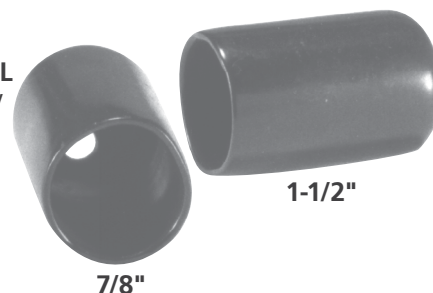


1"

Vinyl Boot Insulator

Ordering information **EM-3901-L** Standard packaging: 25/lbg, 100/lbx, 2 lb/lbx.

Also available singly with any connector shown by adding the suffix **-B** to the part number.



7/8"

1-1/2"

U-Shaped BSW Shield Connectors

EM-3956 SERIES – SHORT U-SHAPED BURIED SERVICE WIRE CONNECTORS WITH FLOATING BONDING HARNESSSES



CONNECTOR WITH 12" LEAD, #10 AWG

Ordering information

EM-3956-10S12R

Short U-shaped BSW shield connector with 12 inches of #10 AWG flexible lead wire, ring terminal.



CONNECTOR WITH 18" LEAD, #10 AWG

Ordering information

EM-3956-10S18R

Short U-shaped BSW shield connector with 18 inches of #10 AWG flexible lead wire, ring terminal.



CONNECTOR WITH 6" LEAD, #6 AWG

Ordering information

EM-3956-6S

Short U-shaped BSW shield connector with 6 inches of #6 AWG flexible lead wire, ring terminal.



BONDING &
GROUNDING

U-Shaped BSW Shield Connectors

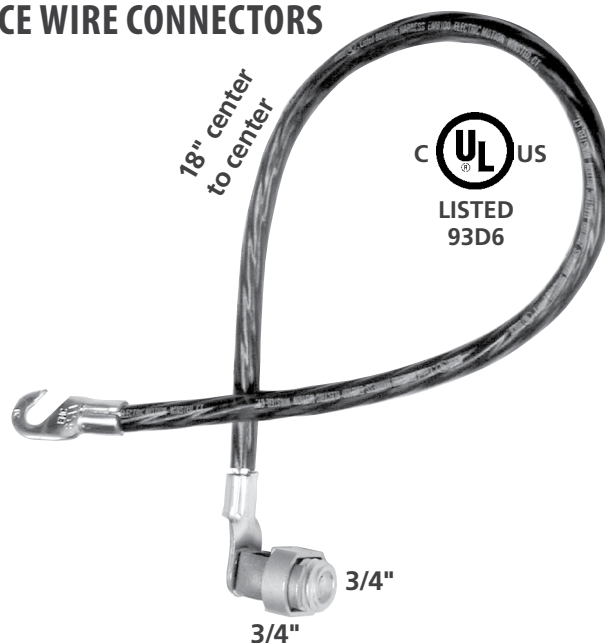
EM-3956 SERIES – SHORT U-SHAPED BURIED SERVICE WIRE CONNECTORS WITH FLOATING BONDING HARNESSSES

CONNECTOR WITH 18" LEAD, #6 AWG

Ordering information

EM-3956-6S18RH

Short U-shaped BSW shield connector with 18 inches of #6 AWG flexible lead wire, hook terminal.



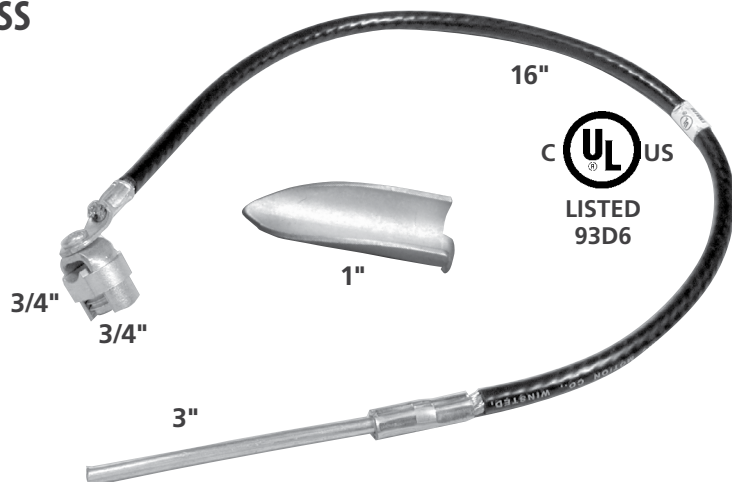
CONNECTOR WITH FLEXIBLE/SOLID HARNESS

Ordering information

EM-3956-163SP

Short U-shaped BSW shield connector with 16 inches of #6 AWG flexible lead wire, 3 inches of solid #6 AWG, pair protector.

Standard packaging: 1 kit/lbg, 25 kits/bx, 14 lb/bx.



CONNECTOR WITH SCREW

Ordering information

EM-3956-S

Short U-shaped BSW connector with a screw for use with your own harness or mounting bracket.

Standard packaging: 25/bg, 100/bx, 5 lb/bx.

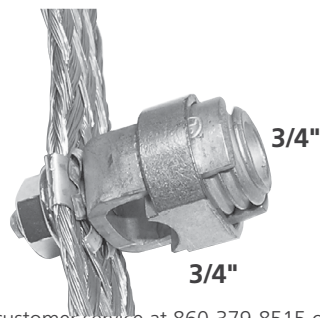


CONNECTOR WITH STUD AND NUT

Ordering information

EM-3956-SWZ

Short U-shaped BSW connector with a screw and a whiz nut for use with your own bonding braid with eyelets



For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

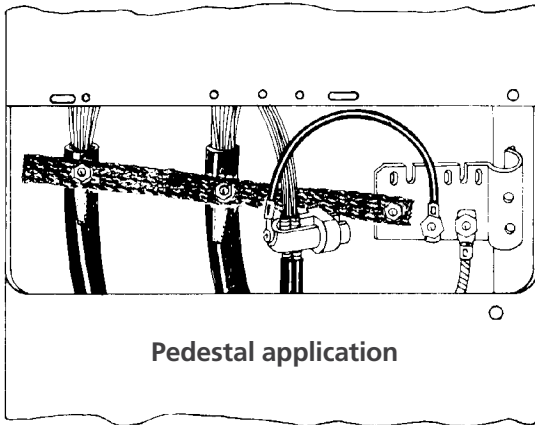


U-Shaped BSW Shield Connectors

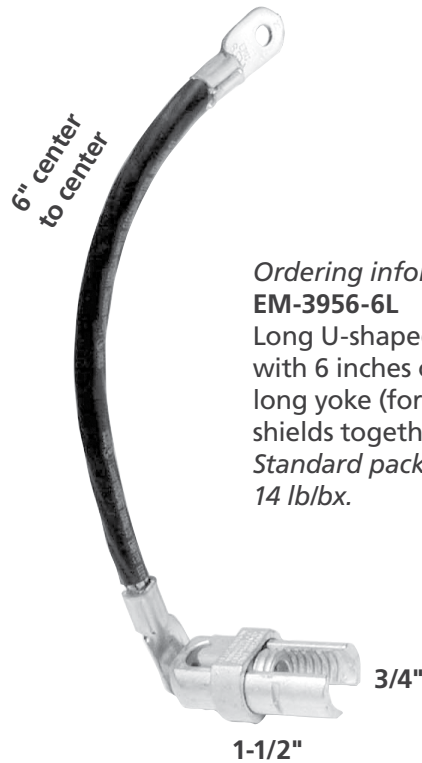
EM-3956 SERIES – LONG U-SHAPED BURIED SERVICE WIRE CONNECTORS WITH FLOATING BONDING HARNESSSES



CONNECTOR WITH 6" LEAD, #6 AWG



Pedestal application



Ordering information

EM-3956-6L

Long U-shaped BSW shield connector with 6 inches of #6 AWG lead wire and long yoke (for one or multiple BSW shields together).

Standard packaging: 10/lbg, 100/lbx, 14 lb/lbx.

Order the connector above, or customize your own connectors:

- Wire gauge can be changed with the first number suffix: **EM-3956-S** (#10, #6), e.g., *EM-3956-10S*.
- Yoke length can be changed with the first letter suffix: **EM-3956-10-S** (S = short, L = long), e.g., *EM-3956-10S*.
- Wire length can be changed by adding a number suffix: **EM-3956-10S-** (inches), e.g., *EM-3956-10S-18*.
- Terminal type can be changed by adding a letter suffix: **EM-3956-10S-18-** (R = ring, F = fork, H = hook), e.g., *EM-3956-10S-18-F*.



F = fork



H = hook



R = ring



FL = flag

U-Shaped BSW Shield Connectors

EM-3956 SERIES – SHORT U-SHAPED BURIED SERVICE WIRE SHIELD CONNECTORS WITH RIGID MOUNTING BARS

Tin-plated brass clamp designed to make a low-resistance connection between a service wire shield and ground point.



Features

- Fits compactly in most NIDs
- Can be used on 2 pair–6 pair buried service wire
- Open-ended design allows the installation of this clamp onto a wire already in service. Also, it can be taken apart to isolate the ground

Ordering information :

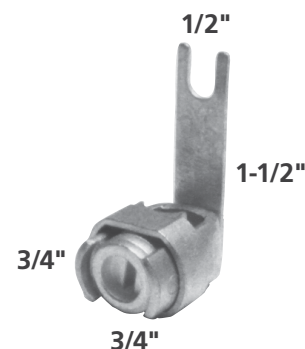
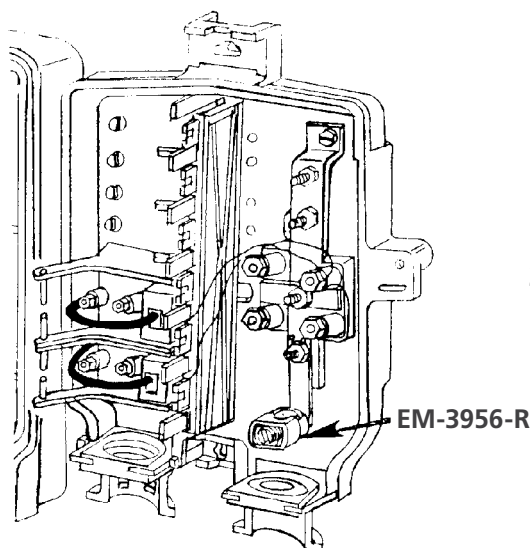
CONNECTOR WITH RIGID MOUNTING BAR

Ordering information

EM-3956-R

Short U-shaped BSW shield connector with tin-plated brass mounting bar (for single BSW).

Standard packaging:
25/bg, 100/bx, 6 lb/bx



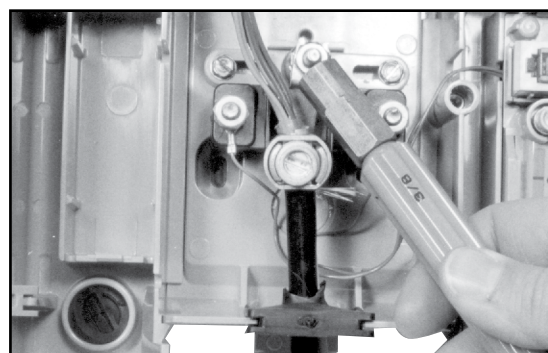
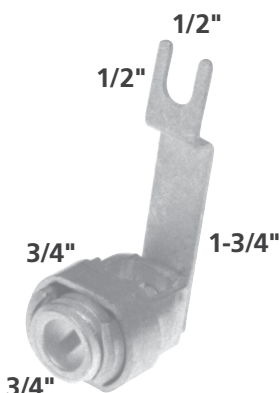
CONNECTOR WITH OFFSET RIGID MOUNTING BAR

Ordering information

EM-3956-RO

Short U-shaped BSW shield connector with offset bar

Standard packaging:
25/bg, 100/bx, 5 lb/bx



For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



U-Shaped BSW Shield Connectors

EM-3956 SERIES – SHORT U-SHAPED BURIED SERVICE WIRE SHIELD CONNECTORS WITH RIGID MOUNTING BARS

CONNECTOR WITH 45° OFFSET RIGID MOUNTING BAR

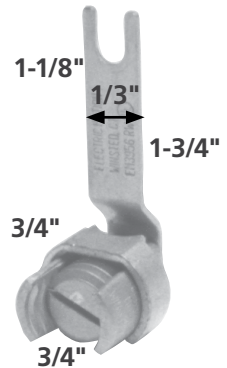
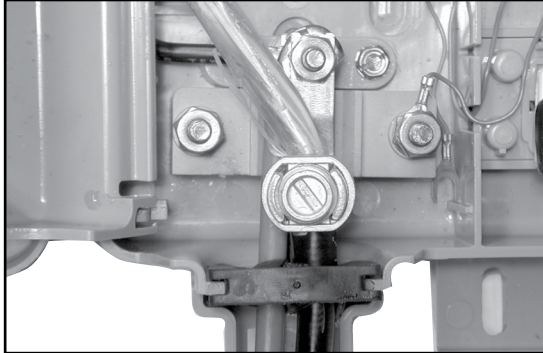
Ordering information

EM-3956-RW

Short U-shaped BSW connector with 45° unplated offset bar.

Standard packaging:

10/lbg, 100/lbx, 6 lb/lbx



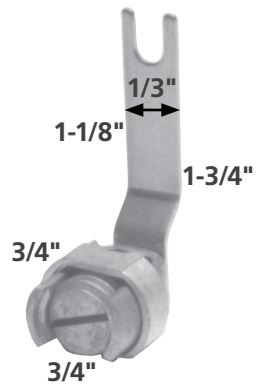
CONNECTOR WITH REVERSED 45° OFFSET RIGID MOUNTING BAR

Ordering information

EM-3956-RR

Short U-shaped BSW connector with 45° unplated offset reversed bar.

Standard packaging: 25/lbg, 100/lbx, 6 lb/lbx.



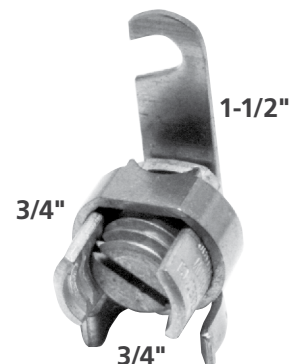
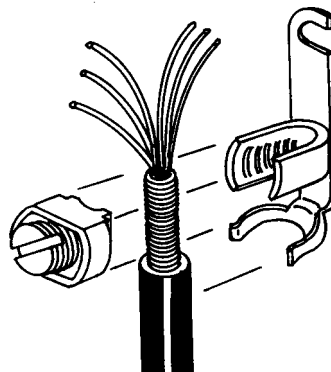
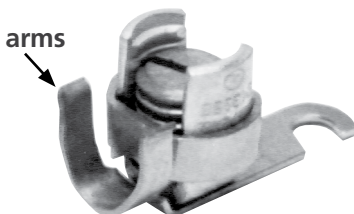
CONNECTOR WITH HOOK-SHAPED RIGID MOUNTING BAR

Ordering information

EM-3956-H

Short U-shaped BSW connector with hook-shaped ground bar. Wraparound arms provide a strain relief.

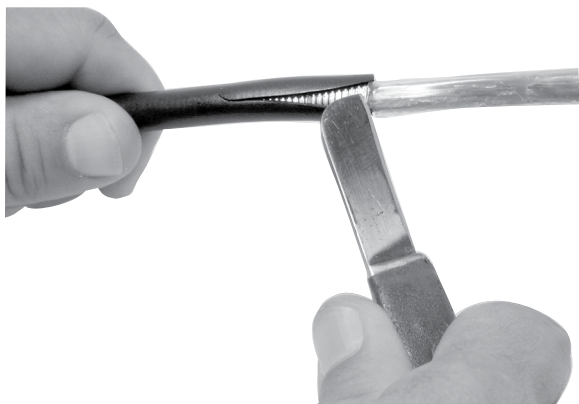
Standard packaging: 25/lbg, 100/lbx, 6 lb/lbx



For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

U-Shaped BSW Shield Connectors

EM-3956M SERIES – MEDIUM U-SHAPED BURIED SERVICE WIRE SHIELD CONNECTORS FOR USE WITH DOUBLE-TAB PAIR PROTECTOR FOR BUILT-IN STRAIN RELIEF



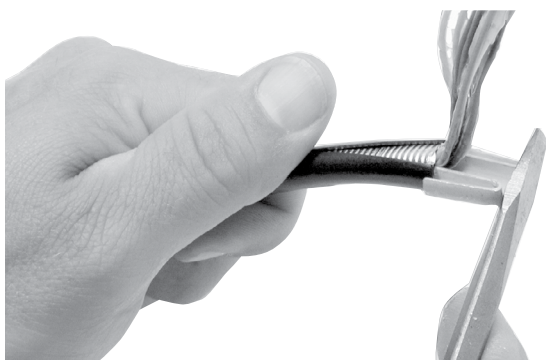
Remove the appropriate amount of sheath necessary for wire termination. Make a lengthwise slit in the jacket 1" from the end.



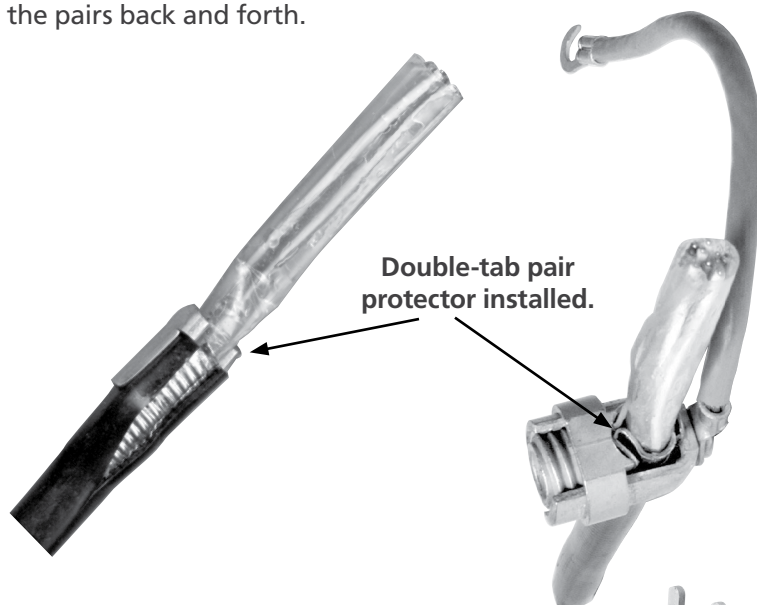
Make room for the pair protector by moving the pairs back and forth.



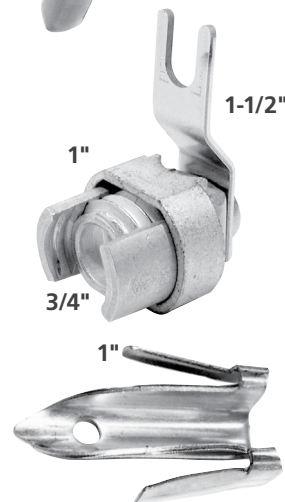
EM-3900-2



Insert pair protector between shield and pairs. This serves as a strain relief and protects the pairs from crushing.



Double-tab pair protector installed.



1"

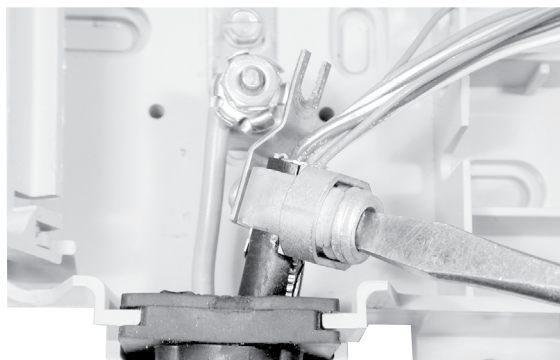
1-1/2"

3/4"

1"

CONNECTOR WITH 40° OFFSET RIGID MOUNTING BAR

Ordering information
EM-3956M-RW1.5P
NIU Connector for 2-pair through 6-pair service wire..
Standard packaging: 50/bx, 5 lb/bx.



For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



U-Shaped BSW Shield Connectors

EM-3956M SERIES – MEDIUM U-SHAPED BURIED SERVICE WIRE SHIELD CONNECTORS FOR USE WITH DOUBLE-TAB PAIR PROTECTOR FOR BUILT-IN STRAIN RELIEF

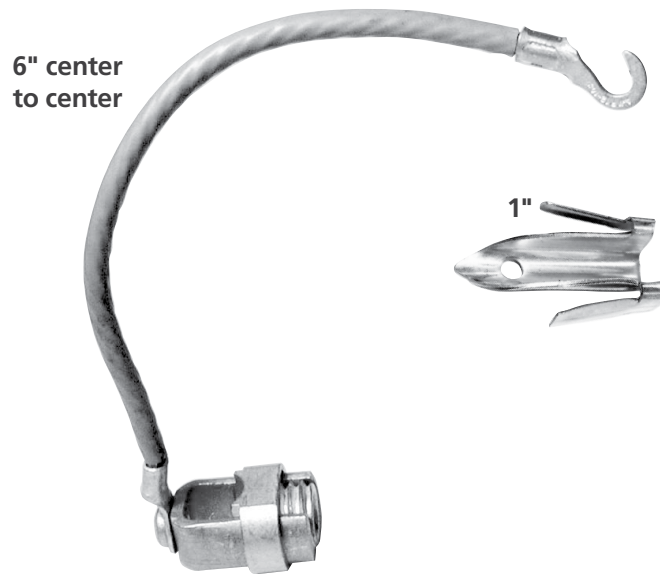


CONNECTOR WITH 6" LEAD, #10 AWG

Ordering information

EM-3956M-10SP

Medium U-shaped BSW connector for single wire with flexible 6" lead, hook terminal.

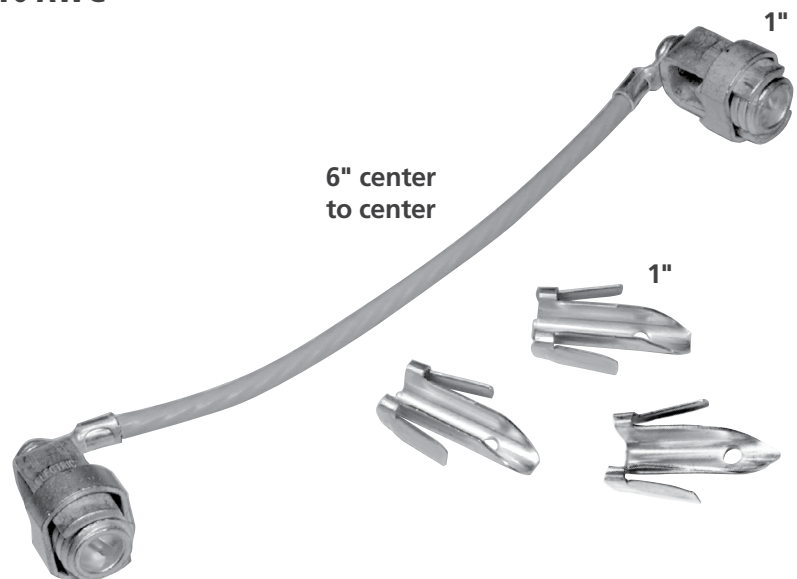


DOUBLE CONNECTOR WITH 6" LEAD, #10 AWG

Ordering information

EM-3956-PM

Two U-shaped BSW shield connectors with medium yokes, connected by a 6" #10 AWG flexible lead, and packaged with two double-tab pair protectors, for use with Kold-n-Klose, for in-line splicing of buried service wires. Permits straight splice configuration without creating a second joint.



BONDING &
GROUNDING

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

U-Shaped BSW Shield Connectors

EM-3956M SERIES – MEDIUM U-SHAPED BURIED SERVICE WIRE SHIELD CONNECTORS FOR USE WITH BONDED ALUMINUM SHIELD



EM-3900-04

CONNECTOR WITH 6" LEAD, #10 AWG

Ordering information

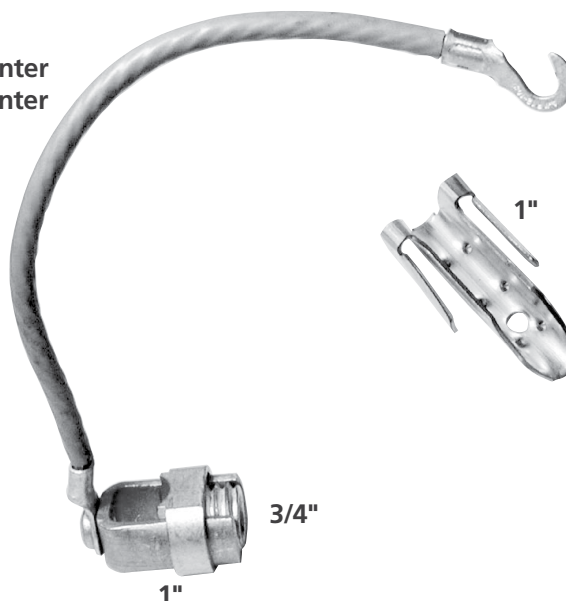
EM-3956M-10SP-04

Medium U-shaped BSW connector with 6" of #10 AWG lead wire, for 2-pair through 6-pair BSW. Pair protector has perforations to penetrate protective coating on shield, for better continuity.

EM-3956M-10SP10-04

Same as above, with 10" lead.

6" center
to center

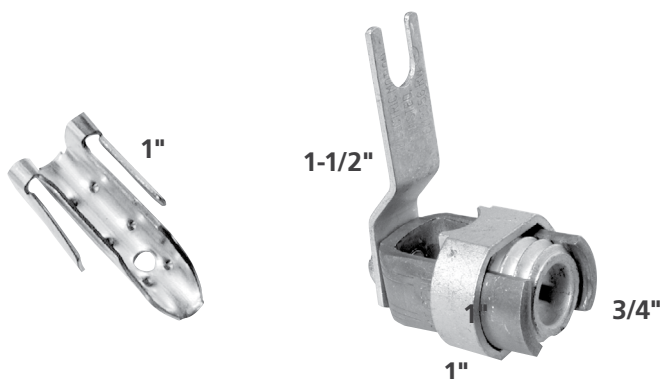


CONNECTOR WITH 40° OFFSET MOUNTING BAR

Ordering information

EM-3956M-RW1.5-04

Medium U-shaped BSW connector with 40° offset, 1 1/2" long mounting bar, for 2-pair through 6-pair BSW. Pair protector has perforations to penetrate protective coating on shield, for better continuity.



PAIR PROTECTOR WITH PERFORATIONS

Ordering information

EM-3900-04



U-Shaped BSW Shield Connectors

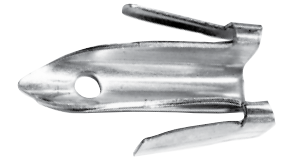
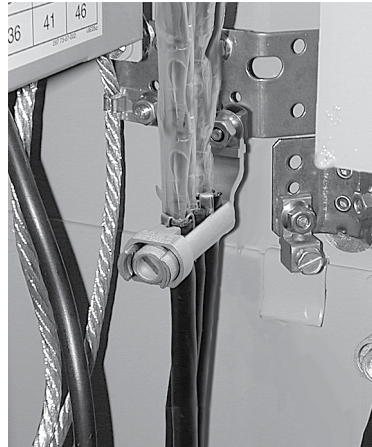
EM-3954 SERIES – LONG U-SHAPED BURIED SERVICE WIRE SHIELD CONNECTORS FOR PEDESTALS FOR USE WITH DOUBLE-TAB PAIR PROTECTOR FOR BUILT-IN STRAIN RELIEF

CONNECTOR WITH 45° OFFSET MOUNTING BAR

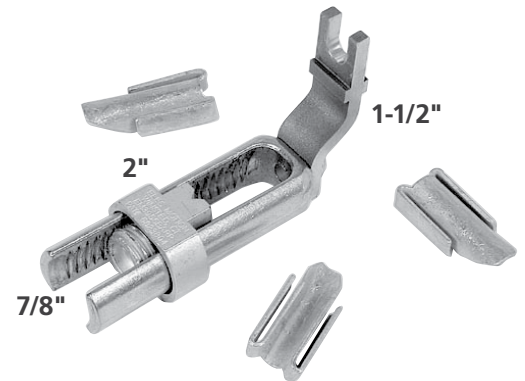
Ordering information

EM-3954-ROP

Long U-shaped BSW connector with 45° offset bar. Accommodates 1 to 3 service wires, 2 pair through 6 pair. Standard packaging: 50/lbx, 6 lb/lbx.



EM-3900-2

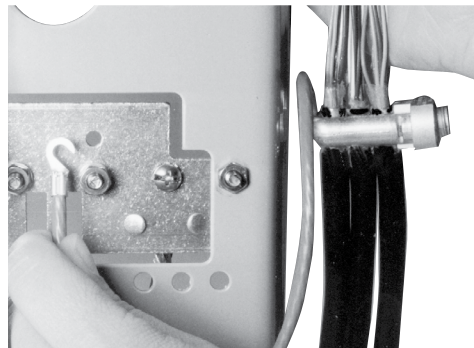


CONNECTOR WITH 10" LEAD, #10 AWG

Ordering information

EM-3954-10SP/10

Long U-shaped BSW connector with #10 AWG ground lead, 10" long, hook terminal. Accommodates 1 to 3 service wires, 2 pair through 6 pair.

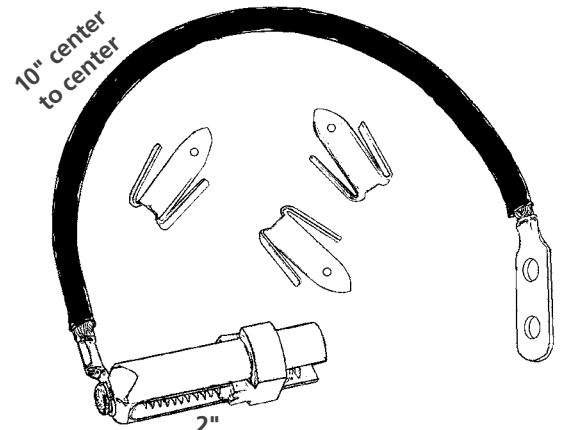


CONNECTOR WITH 10" LEAD, #6 AWG, DOUBLE RING TERMINAL

Ordering information

EM-3954-6L/8100-10-DHP

Long U-shaped BSW connector with #6 AWG ground lead, 10" long, double-hole ring terminal. Accommodates 1 to 3 service wires, 2 pair through 6 pair.



BONDING &
GROUNDING

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

U-Shaped BSW Shield Connectors

EM-3958 SERIES – LARGER DIAMETER U-SHAPED BURIED SERVICE WIRE SHIELD CONNECTORS

Shield connector for 12-pair buried service wire. Available with anti-crush devices for three different shield sizes: .41", .48", .52". Also available with flexible insulated harness, or with tapped fork and loose 10/32 screw.

12-PAIR CONNECTOR

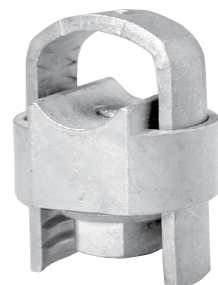
Ordering information

EM-3958-S – Connector with no anti-crush device

Standard packaging: 10/lbg, 100/lbx, 14 lb/lbx.

Anti-crush devices: add suffix to part number to indicate shield diameter: .41, .48, .52.

7/8"



.39"

.41"

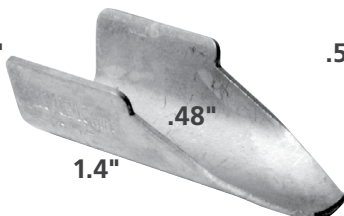
1.4"



.43"

.48"

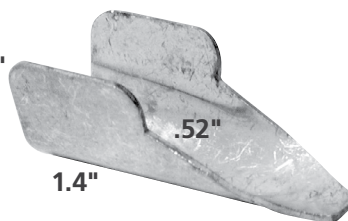
1.4"



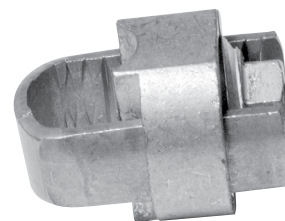
.53"

.52"

1.4"



1-1/4"

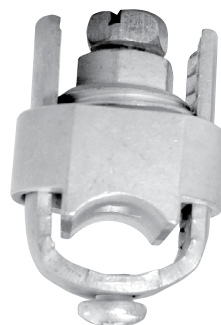


EM-3958-SS – Connector with no anti-crush device, with tapped fork and loose 10/32 screw

Standard packaging: 100/lbx, 13 lb/lbx.

Anti-crush devices: add suffix to part number to indicate shield diameter: .41, .48, .52.

7/8"

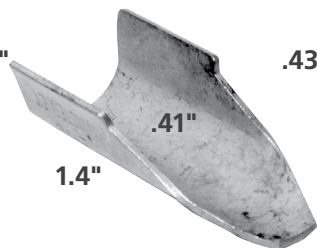


1-1/4"

.39"

.41"

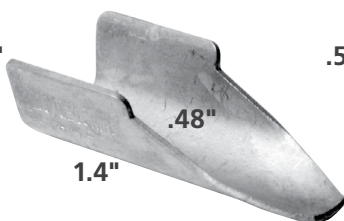
1.4"



.43"

.48"

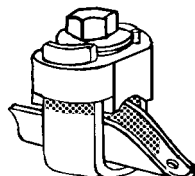
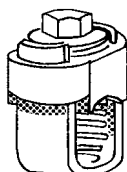
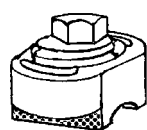
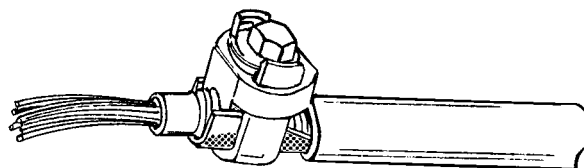
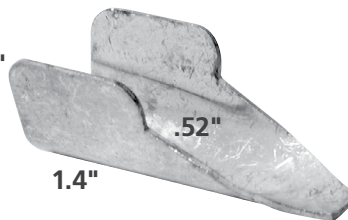
1.4"



.53"

.52"

1.4"



For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



U-Shaped BSW Shield Connectors

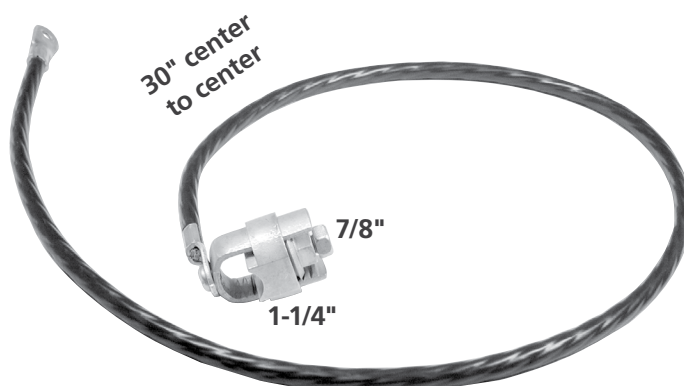
EM-3958 SERIES – LARGER DIAMETER U-SHAPED BURIED SERVICE WIRE SHIELD CONNECTORS

CONNECTOR WITH 30" LEAD, #6 AWG FOR PEDESTALS

Ordering information

EM-3958-S/30 – Large U-shaped BSW connector with no anti-crush device, with 30" flexible insulated harness, #6 AWG, with ring terminal, #10 size mounting hole.

Standard packaging: 100/bx, 44 lb/bx.



CONNECTOR WITH 20" LEAD AND ANTI-CRUSH DEVICES

Ordering information

EM-3958-S/20 P3 – Large U-shaped BSW connector with 20" flexible insulated harness, #6 AWG, with ring terminal, #10 size mounting hole, and all three of the anti-crush devices on p. 476 Use the one that fits; discard the other two.

Standard packaging: 100/bx.



CONNECTOR WITH 10" LEAD FOR NIDS

Designed for the large-diameter 6-pair 19 AWG buried service wire or 12-pair buried service wire. Also available with #12 or #6 AWG ground wire lead.

Features

- Opens like a book to allow ease of installation
- Can be disassembled quickly to isolate the ground

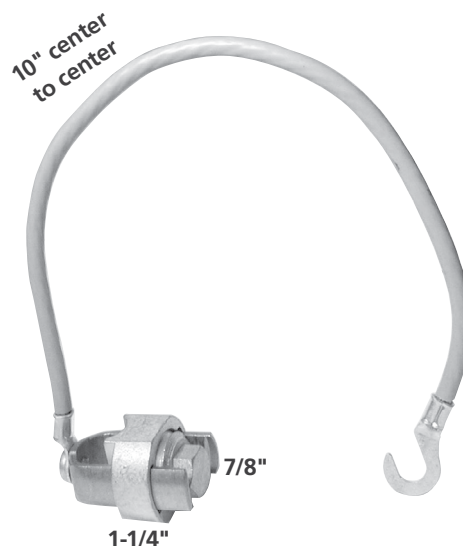
Applications

Can be used on network interface devices, protectors, and terminals.

Ordering information

EM-3958-S1010 – Large U-shaped BSW Shield Connector with 10" of #10 AWG wire and a hook terminal.

Standard packaging: 100/bx, 16 lb/bx.



BONDING &
GROUNDING

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

U-Shaped BSW Shield Connectors

BARP SERIES – SPARK GAP SHIELD TERMINATION

Description

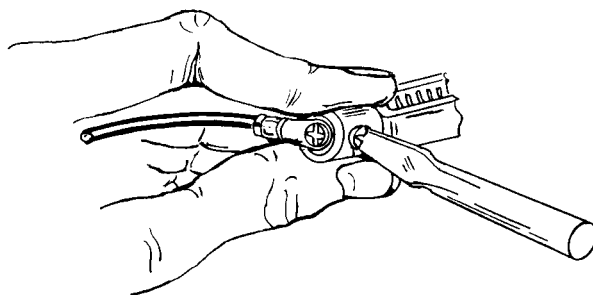
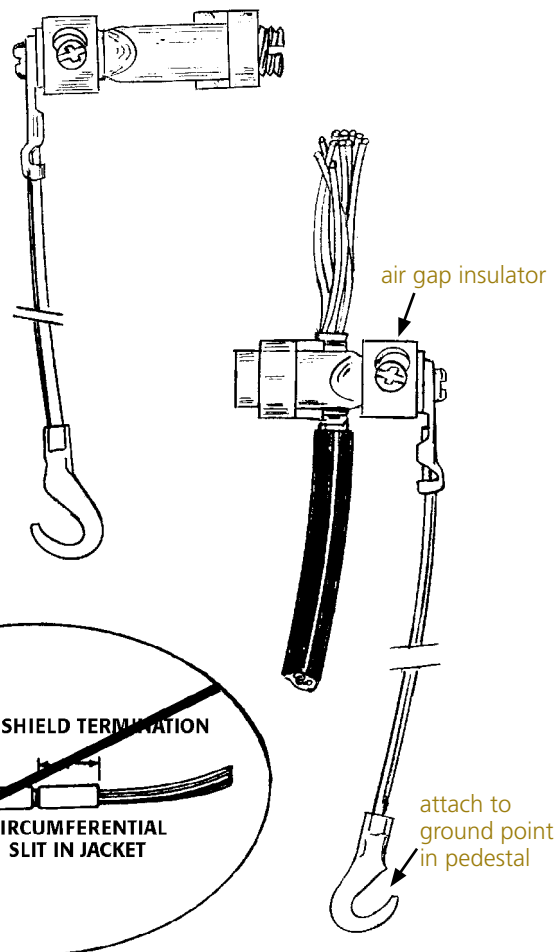
These clamps are designed for use in the distribution pedestal where an indirect or isolated type of connection is desired. This method of termination prevents the shield of the buried service wire from becoming a conductor of unwanted stray voltages, yet allowing higher voltages, such as lightning, to go safely to ground.

Applications

Works with 2 pair–6 pair shielded buried service wire if the jacket can be stripped from the shield. Works with all of the major pedestals.

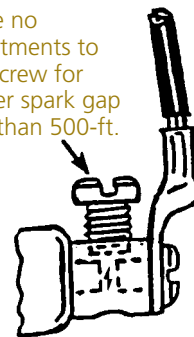
Features

- The spark gap is built into the clamp itself, eliminating the craft-sensitive methods of termination, such as a circumferential knife cut in the jacket, or a buildup of electrical tape.
- Available with an insulator boot.
- Minimum spark-over voltage is 1–3 KV.
- Meets Bellcore criteria for lightning surge per spec #TR-NWT-001001.
- Spark gap electrodes can be easily bypassed, if desired, by tightening the side screw in the insulator. This bridges across the electrodes, making a direct connection to ground.

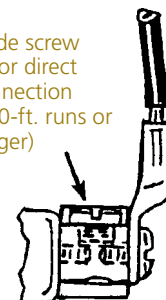


Loosen side screw, rotate plastic collar to the larger portion of the slot, and re-tighten.

Make no adjustments to this screw for proper spark gap (less than 500-ft. runs)



*Side screw in for direct connection (500-ft. runs or longer)



See next page for ordering information.

U-Shaped BSW Shield Connectors

BARP SERIES – SPARK GAP SHIELD TERMINATION

CONNECTOR WITH 10" LEAD, #10 AWG

Ordering information

EM-3955-BARP

Spark Gap U-Shaped BSW Shield Connector with 10" #10 AWG flexible lead and hook terminal.

Standard packaging: 10/bg, 100/bx, 14 lb/bx.



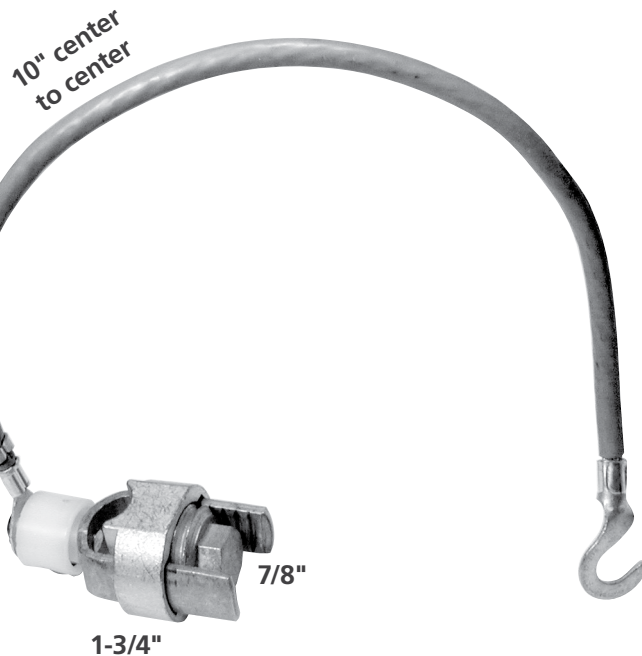
LARGER DIAMETER CONNECTOR WITH 10" LEAD, #10 AWG

Ordering information

EM-3958-S1010BARP

Spark Gap U-Shaped BSW Shield Connector works with large diameter 6 pair/19 AWG shielded buried service wire.

Standard packaging: 100/bx, 17 lb/bx.



BONDING &
GROUNDING

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

U-Shaped BSW Shield Connectors

BARP SERIES – SPARK GAP SHIELD TERMINATION

CONNECTOR WITH 15" OR 36" LEAD, #6 AWG

RUS Listed

Ordering information

EM-3955-6S/8100-15 BARP

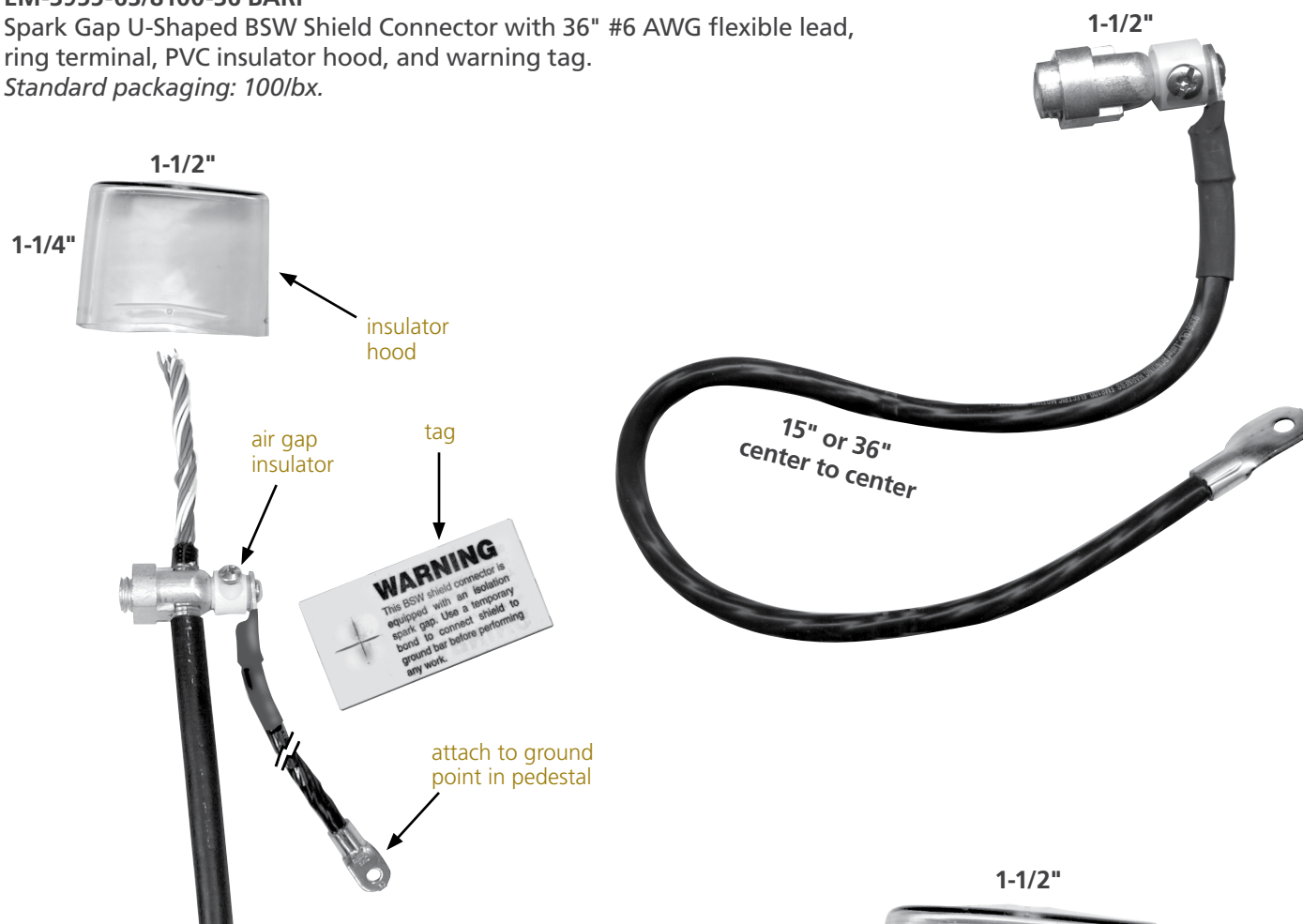
Spark Gap U-Shaped BSW Shield Connector with 15" #6 AWG flexible lead, ring terminal, PVC insulator hood, and warning tag.

Standard packaging: 100/bx, 27 lb/bx.

EM-3955-6S/8100-36 BARP

Spark Gap U-Shaped BSW Shield Connector with 36" #6 AWG flexible lead, ring terminal, PVC insulator hood, and warning tag.

Standard packaging: 100/bx.

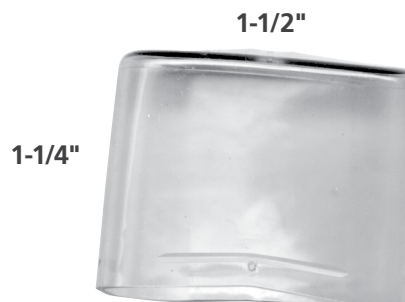


CLEAR PVC INSULATOR HOOD

Ordering information

EM-3902

Can be ordered separately.



U-Shaped BSW Shield Connectors

OPTIONAL ACCESSORIES

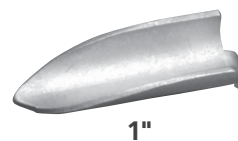
PAIR PROTECTOR

Ordering information

EM-3905

Standard packaging: 100/bg, 1000/bx, 6 lb/bx.

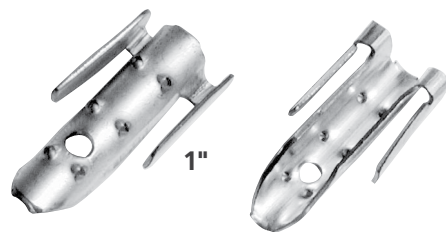
Also available singly with BSW shield connector by adding suffix -P to the part number.



DOUBLE-TAB PAIR PROTECTOR WITH BLOSSOMS

Ordering information

EM-3900-04



PAIR PROTECTOR WITH TWO TABS

Ordering information

EM-3900-2

For use in single or multiple BSW applications, for built-in strain relief.



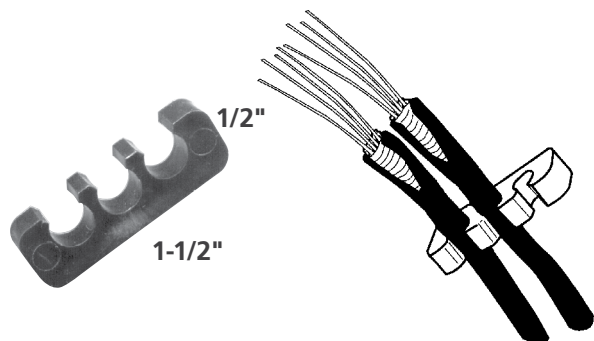
BURIED SERVICE WIRE HOLDER

Ordering information

EM-3906 – BSW holder for 3-pair BSWs

EM-3904 – BSW holder for 2-pair BSWs

For positioning and holding BSW in long yoke BSW connectors.



VINYL BOOT INSULATOR

Ordering information

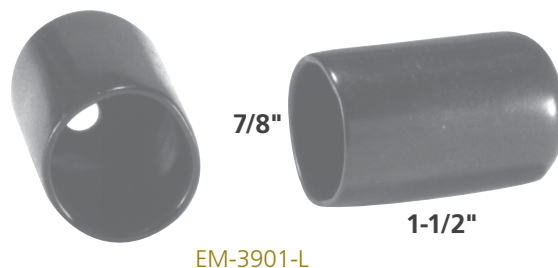
EM-3901 – 1" long, 7/8" dia.

EM-3901-M – 1" long, 1" dia.

EM-3901-L – 1-1/2" long, 7/8" dia.

Standard packaging: 25/bg, 100/bx, 2 lb/bx.

Also available singly with corresponding BSW connector by adding suffix -B to the part number.



BONDING &
GROUNDING

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

BSW Shield Connectors

BURIED SERVICE WIRE FLOATING BOND

The EM-FB series of buried service wire bonds are designed for a fast, easy, foolproof installation from the shield of a buried service wire to the ground point of a network interface device, protector, terminal, or pedestal.

Features

- The connector opens like a book so the installer doesn't have to thread the pairs through the connector.
- The conductor pairs emerge from the top of the connector, eliminating the danger of pinching the pairs between the two halves of the clamp.
- Works with 2-pair through 6-pair buried service wire.
- Wire lead allows the bond to "float" so that frost, vibration, ground shrinkage, and settling won't contribute to shield breakage.
- Connector wraps completely around the shield for greater surface area contact.
- Compact design fits in many of today's crowded enclosures.
- Available with #10, #12, or #14 AWG wire lead, in any length.
- Available with a hook, fork, ring, or flag terminal.

Ordering information

Standard part number: **EM-FB-1406F** – Connector with a #14 AWG wire, 6 inches long, fork terminal.

cULus Listed, 93D6: #10 AWG wire, any length, any terminal.

Variations:

- Wire gauge can be changed with the first two numbers: **EM-FB-__06F** (#10, #12, #14 AWG)
- Wire length can be changed with the last two numbers: **EM-FB-14__F** (2"–36")
- Terminal can be changed with the last letter: **EM-FB-1406_** (F, H, R, FL)



F = fork



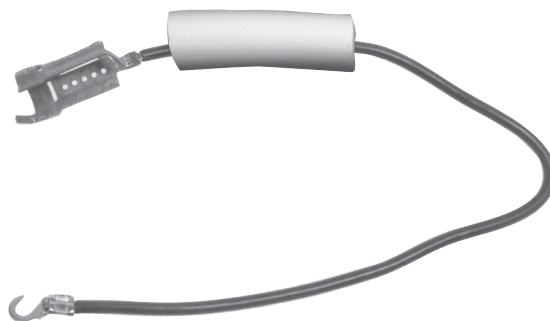
H = hook



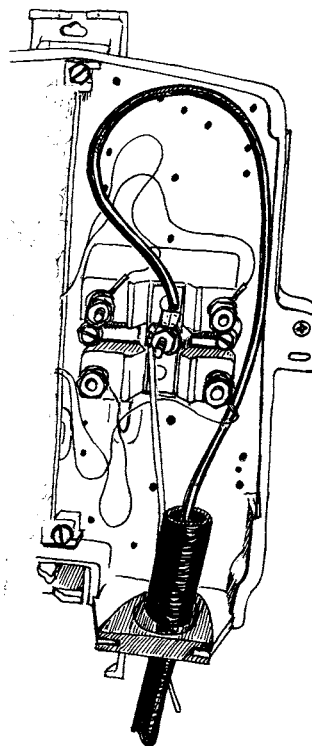
R = ring



FL = flag



Closeup, after attaching to buried service wire



Installation in a NID

Rocket 88 Shield Connectors

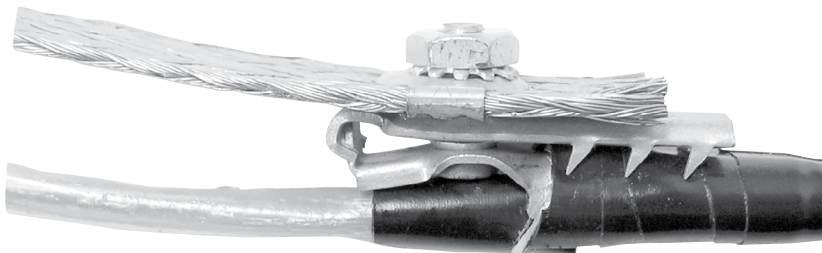
ROCKET 88 – BURIED SERVICE WIRE SHIELD CONNECTORS

Description

A small radius shield connector.

Features

- Brass for strength and conductivity
- Tin plated for corrosion compatibility with aluminum, copper, and steel
- Shaped bottom plate facilitates insertion into small cables and buried service wires
- Teeth on top plate give high pull-out strength.
- Standard size stud accommodates all bonding and grounding harnesses.
- Meets Bellcore electrical specifications
- Circular, rounded bottom plate electrically isolates shield from cable pairs to prevent shorts and grounds.
- Designed to work with corrugated or flat/bonded shields
- Provides excellent pullout strength without punching a stud hole
- Universal design



Applications

- Bonding and grounding buried service wires (2–12 pairs)
- Bonding and grounding small cables up to 25 pair

Ordering information

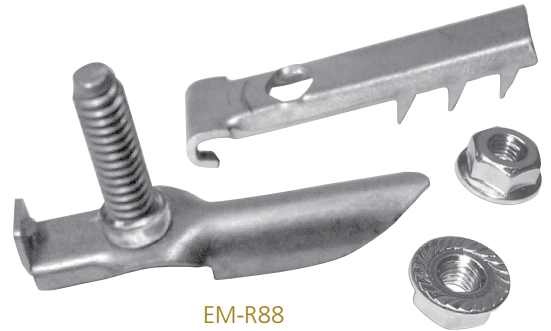
EM-R88 – Small radius shield connector: bottom plate with stud, top plate, two star washer nuts, used to bond and ground 2- to 4-pair buried service wires. See suffix -E for larger count buried service wire and cables.

Add suffix **-TSH** for torque shear nut.

Add suffix **-B** for blossoms on bottom plate.

Add suffix **-S** for short stud.

Add suffix **-E** for expanded radius, to accommodate 5- to 12-pair cables.



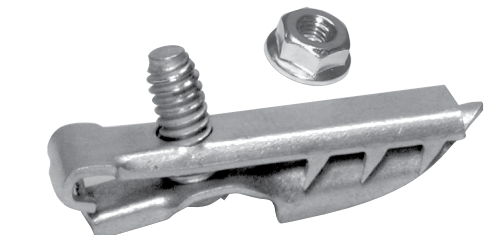
EM-R88



EM-R88-TSH
torque shear nut



EM-R88-B
blossoms



EM-R88-S
short stud

BONDING &
GROUNDING

Rocket 88 Shield Connectors

ROCKET 88 – SHIELD CONNECTORS WITH ATTACHED LEADS

Cat 3-7 Shield Connectors

Description

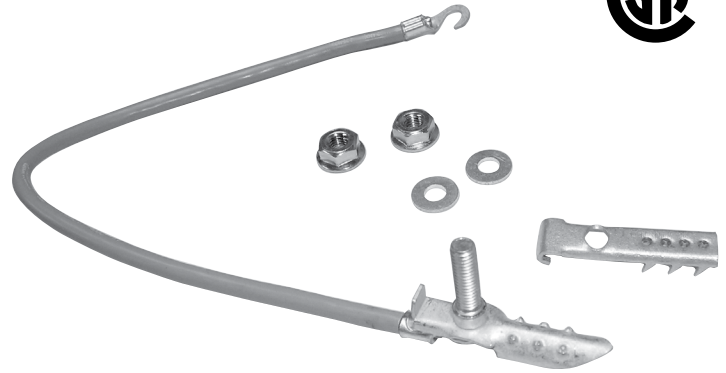
This all-inclusive shield connector can be used to terminate both buried and aerial service wires manufactured with a metallic shield, as well as inside wiring for equipment grounds. Comes with a factory-mounted #10 flexible lead that provides a simple way for the technician to bond and ground the shield of the service wire where the ground post or point is distanced from the wire terminal or protector block. Also works well in situations where access to the station equipment is tight or wire rework is expected.

Options

- #10 lead is available in any length specified.
- Lead can be provided as loose piece (separate from connector).
- Available with ring or hook terminals

Features

- Designed to work with corrugated or flat/bonded shields
- Provides excellent pullout strength without punching a stud hole
- Universal design



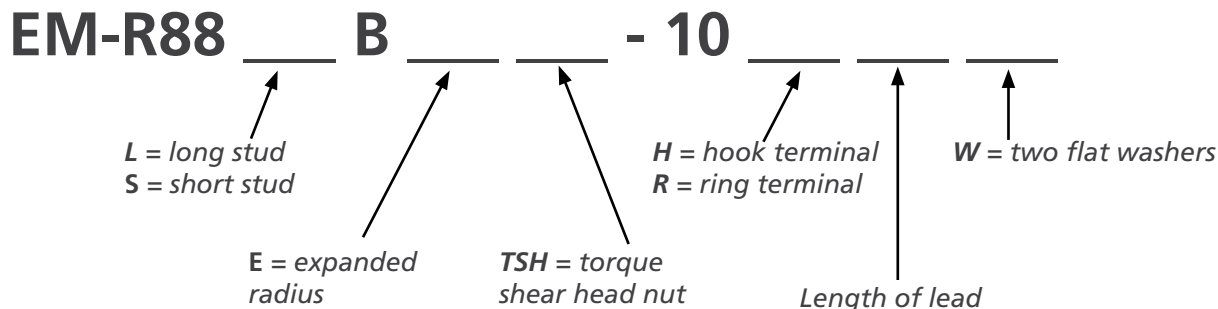
Ordering information

EM-R88LB10H10 – Small radius shield connector for 2–4 pairs, with 10" #10 lead

EM-R88LBE10H10 – Expanded radius shield connector for 5–12 pairs, and cables up to 25 pairs, with 10" #10 lead

EM-R88LB10P24 – Cat. 5 25-pair shield connector with expanded radius and blossoms. #10 AWG stranded wire, green insulation, with plain end (no terminal), 24" long, with two flat washers, one whiz nut

Part Numbering Variations Matrix



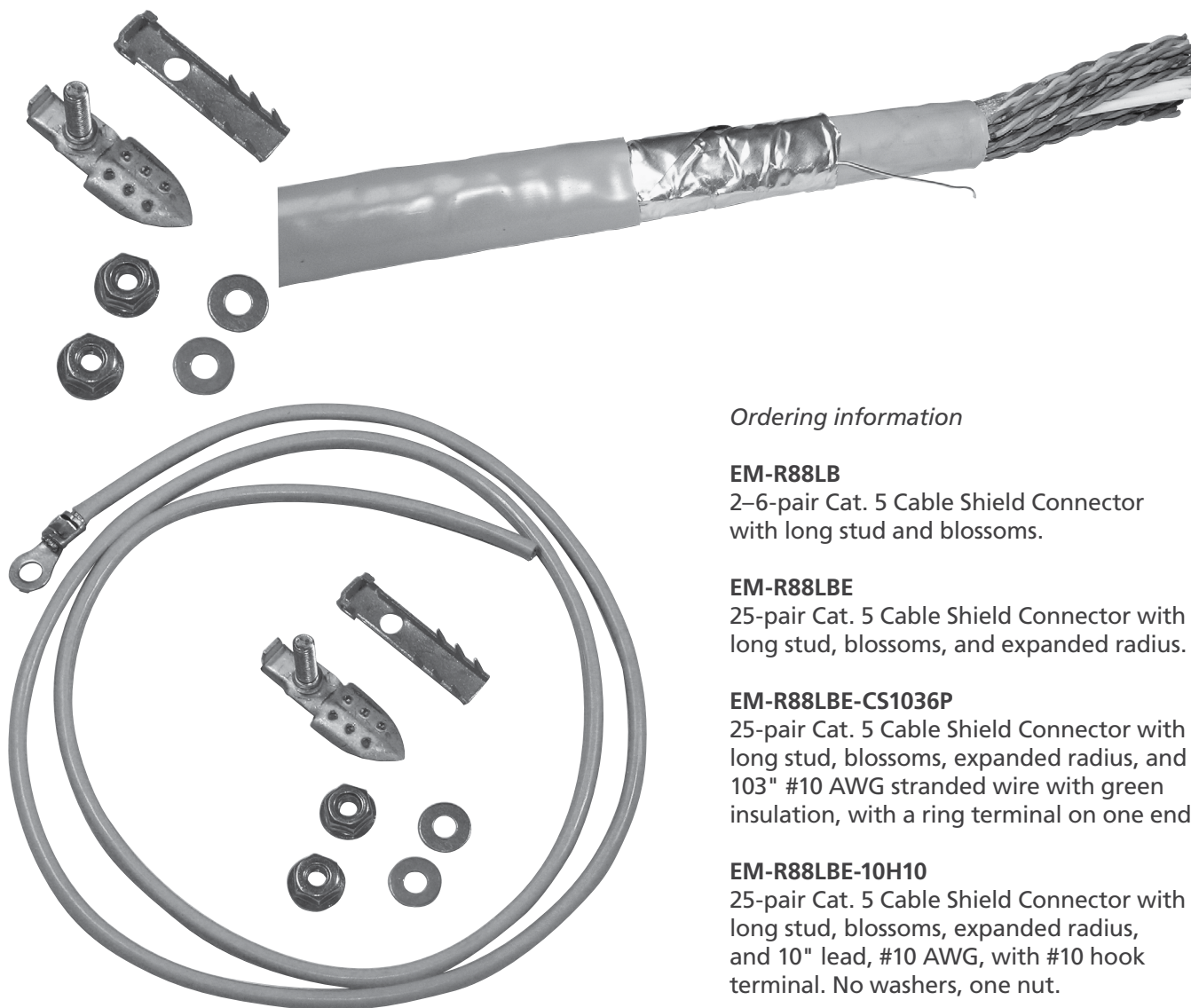
Example:

EM-R88LBE-10R12 =

Shield connector with long stud, expanded radius, 12" #10 lead with a ring terminal.

Rocket 88 Cat 5 Cable Shield Connectors

SHIELD CONNECTORS FOR CAT 5 CABLES



Ordering information

EM-R88LB

2-6-pair Cat. 5 Cable Shield Connector with long stud and blossoms.

EM-R88LBE

25-pair Cat. 5 Cable Shield Connector with long stud, blossoms, and expanded radius.

EM-R88LBE-CS1036P

25-pair Cat. 5 Cable Shield Connector with long stud, blossoms, expanded radius, and 103" #10 AWG stranded wire with green insulation, with a ring terminal on one end.

EM-R88LBE-10H10

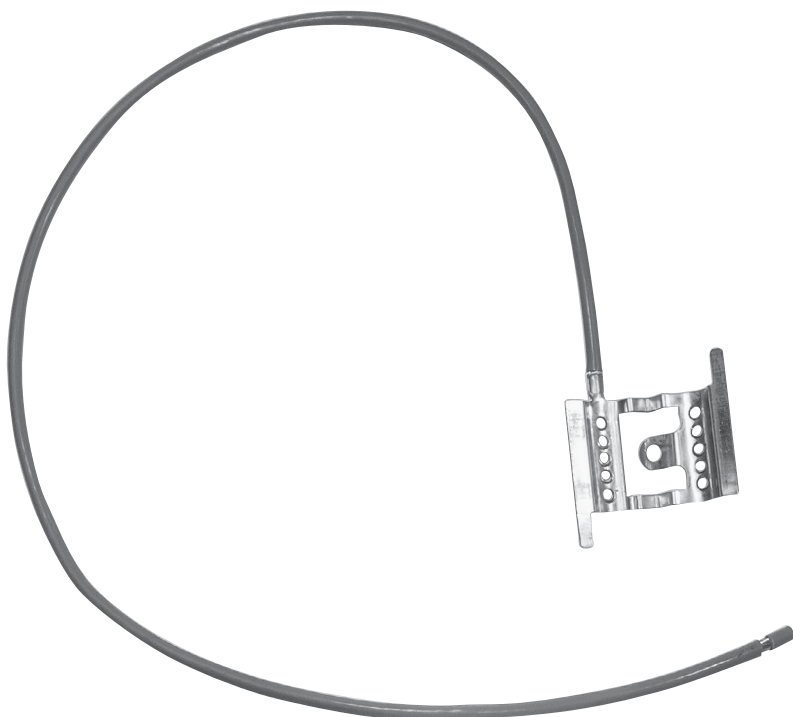
25-pair Cat. 5 Cable Shield Connector with long stud, blossoms, expanded radius, and 10" lead, #10 AWG, with #10 hook terminal. No washers, one nut.



For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

Shield Connectors

25-PAIR CAT 5 CABLE SHIELD CONNECTOR



Extra-large shield connector for 25-pair Cat. 5 cable, with #10 AWG stranded wire with green insulation crimped to connector 36" long and plain end (no terminal).

Features

- Connector surrounds the shield almost 360°
- Crimps with standard 9" pliers
- Lead wire provides maximum float
- Blossoms on inside make contact through blue coating

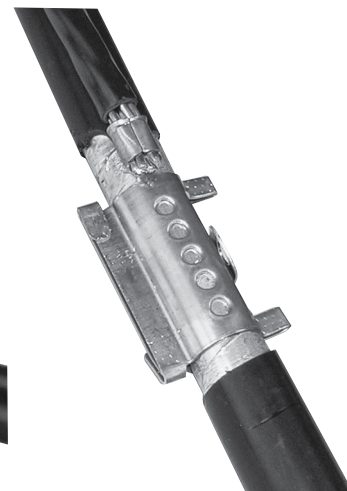
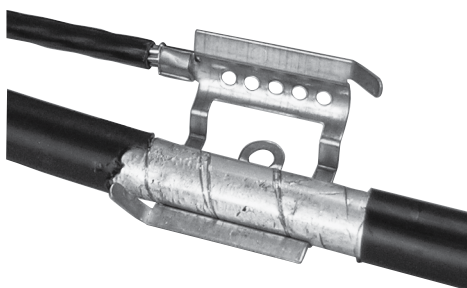
Ordering information
EM-FBXL25

25-PAIR CAT 5 CABLE SHIELD CONNECTOR

Extra-large shield connector for 500 coaxial cable, attached to 30"-long #6 AWG 7-strand wire with black insulation and plain end (no terminal).

Packaged with two-hole copper compression terminal lug and tie wrap.

Ordering information
EM-FBXL-500-7S-30



For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Rocket 88 Shield Connectors

SHIELD CONNECTOR FOR 12-PAIR STUB CABLE, #10 LEAD

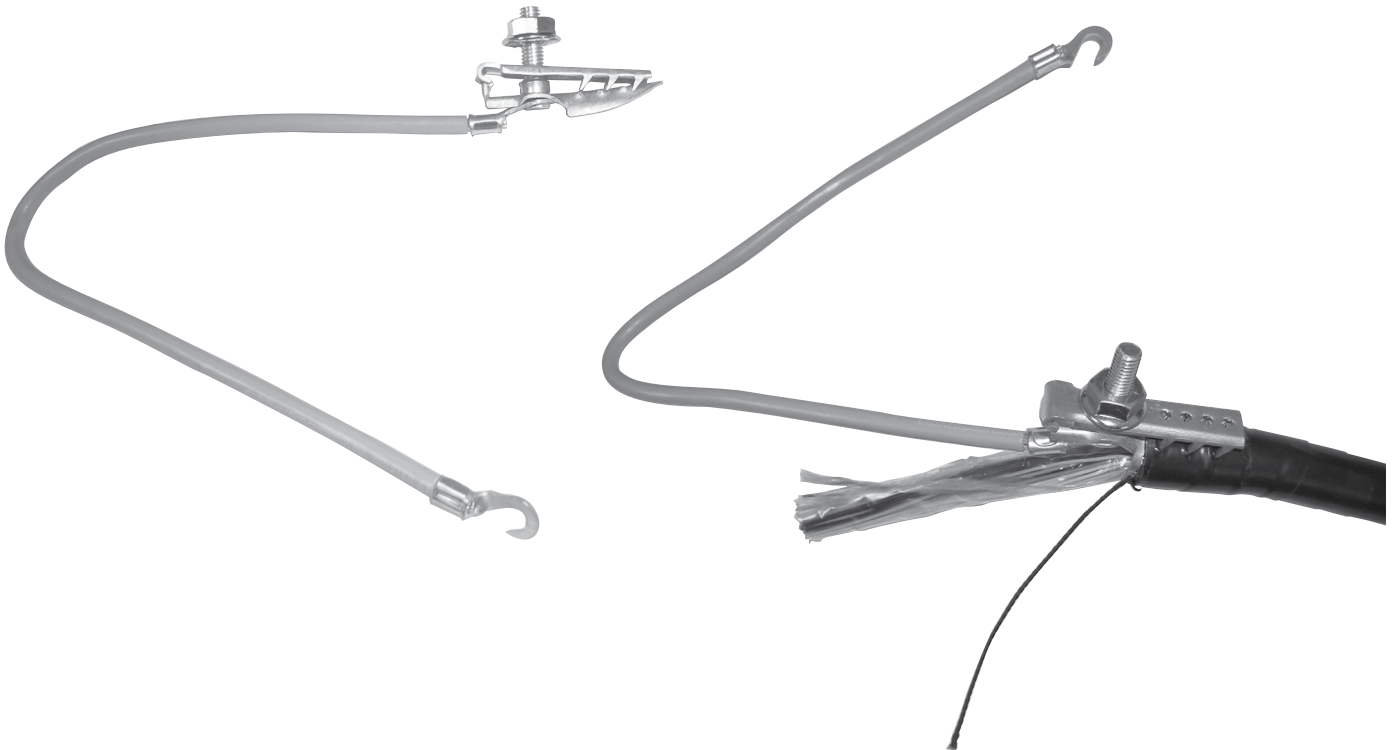
Description

EM-R88 shield connector with a .350" radius and blossoms on the bottom plate. 10" lead, #10 AWG, with #10 hook terminal. No washers, one nut.



Ordering information

EM-R88LB.350-10H10 – Shield connector for 12-pair stub cable



SHIELD CONNECTOR FOR 12-PAIR STUB CABLE

Description

EM-R88 shield connector with a .350" radius and blossoms on the bottom plate, same as above, with no lead. No washers, one nut.

Ordering information

EM-R88LB.350 – Shield connector for 12-pair stub cable



BONDING &
GROUNDING

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

Rocket 88 Shield Connectors

ROCKET 88 SHIELD CONNECTORS WITH RIGID BARS

Shield Connectors with Rigid Bars



Rocket 88 shield connector with blossoms, with attached rigid, forked bar. Available in any length. Used to ground buried service wire and small diameter cables where a ground post or stud is provided. **EM-R88BE-R** and **EM-R88BE-RXT** may also be used to ground the shield of small cables up to 25 pairs. Custom fork length are available.

Ordering information

EM-R88B-R – With short fork, accommodates 2- to 4-pair buried service wire

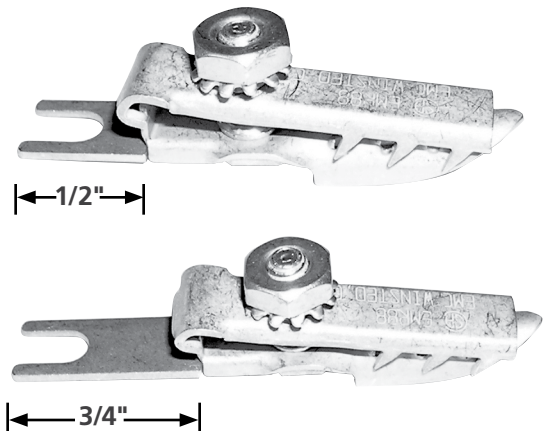
EM-R88BE-R – With short fork, for 5- to 12-pair BSW

EM-R88B-RXT – With long fork, for 2- to 4-pair BSW

EM-R88BE-RXT – With long fork, for 5- to 12-pair BSW

Add suffix **-TSH** for torque shear nut.

Add suffix **-S** for short stud (shown at right).



At a glance ...

PART NUMBER	ACCOMMODATES	DISTINGUISHING FEATURES	LISTING
EM-R88	2–4 pair BSW		CSA
EM-R88-TSH	(same)	Torque shear head nut	CSA
EM-R88-B	(same)	Blossoms on bottom plate	CSA
EM-R88-S	(same)	Short stud	CSA
EM-R88-E	5–12 pair BSW	Expanded radius	CSA
EM-R88LB10H10	2–4 pair BSW	10" #10 flexible harness	CSA
EM-R88LBE10H10	5–12 pair BSW	10" #10 flexible harness, expanded radius	CSA
EM-R88B-R	2–4 pair BSW	Blossoms, attached 1/2" fork	CSA
EM-R88BE-R	5–12 pair BSW	Blossoms, attached 1/2" fork, expanded radius	CSA
EM-R88B-RXT	2–4 pair BSW	Blossoms, attached 3/4" fork	CSA
EM-R88BE-RXT	5–12 pair BSW	Blossoms, attached 3/4" fork, expanded radius	CSA
EM-R88B ____ -TAB	2–4 pair BSW	Blossoms, removable fork	CSA
EM-R88LB.350-10H10	12-pair stub cable	Blossoms, 10" #10 flexible harness, .350" radius	CSA
EM-R88LB.350	12-pair stub cable	Blossoms, .350" radius	CSA

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Rocket 88 Shield Connectors

ROCKET 88 SHIELD CONNECTORS WITH RIGID BARS

Shield Connectors with Removable Fork Tab

Rocket 88 shield connector with breakaway rigid, forked lead. Lead (or tab) is 1/2" long. Used for bonding and grounding buried service wire and small diameter cables at pedestals, terminals, NIDs, station protectors, or buried splices. May also be used to ground the drain wire and/or metallic foil shield of new generation aerial service wires.

Applications

- Bonding and grounding buried service wires (2–12 pairs)
- Bonding and grounding small cables up to 25 pair

Features

- Universal design reduces the number of parts carried on service vehicle.
- Can be connected to a ground post (with fork) or to an eyelet or ground bar with holes (with stud).
- Designed to ground either corrugated or flat bonded shields.
- Fork length can be manufactured to suit specific applications.
- Simple to install, significantly reduces installation time.

Ordering information

EM-R88-B___-TAB –

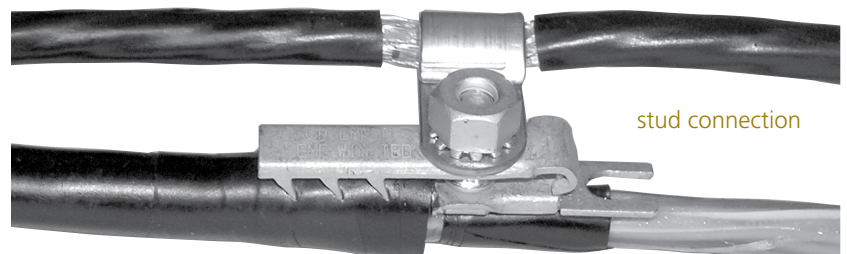
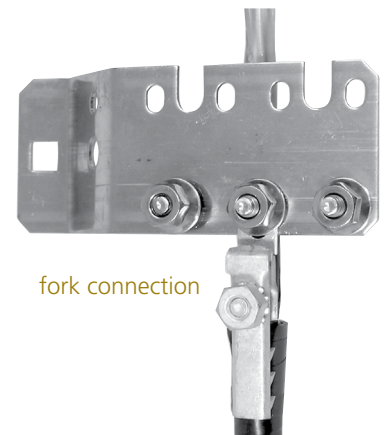
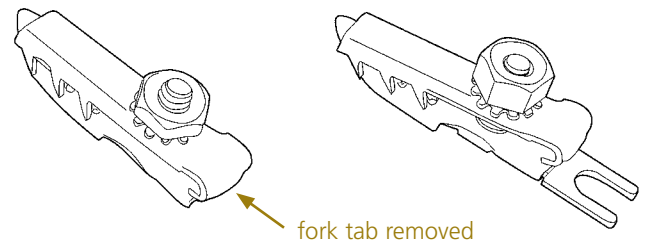
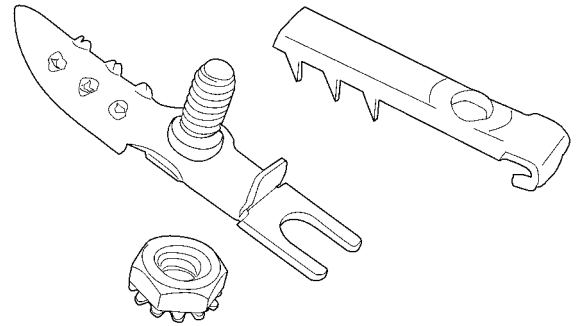
Two- to four-pair shield connector with breakaway rigid lead. See suffix **-E** for larger count buried service wire and cables up to 25 pairs.

Add suffix **-S f** or short stud (shown at right).

Add suffix **-E** for expanded radius to accommodate 5–25 pairs.

Add suffix **-TSH** for torque shear nut.

Add suffix **-XT** for long tab (3/4").



BONDING &
GROUNDING

Rocket 88 Shield Connectors

ROCKET 88 ACCESSORIES

Grounding Harness

This versatile harness is perfect for grounding the shield of buried service wires within pedestals and terminals where wire management is important. Hook or ring terminal permits easy connection to standard ground bar or post. Permits the technician to freely install the R88 bond clamp and then make the connection to ground. Available in custom configurations, #6 or #10 stranded AWG, green or black insulation. Comes assembled with five high-quality flag terminals and one hook or ring terminal.

Ordering information

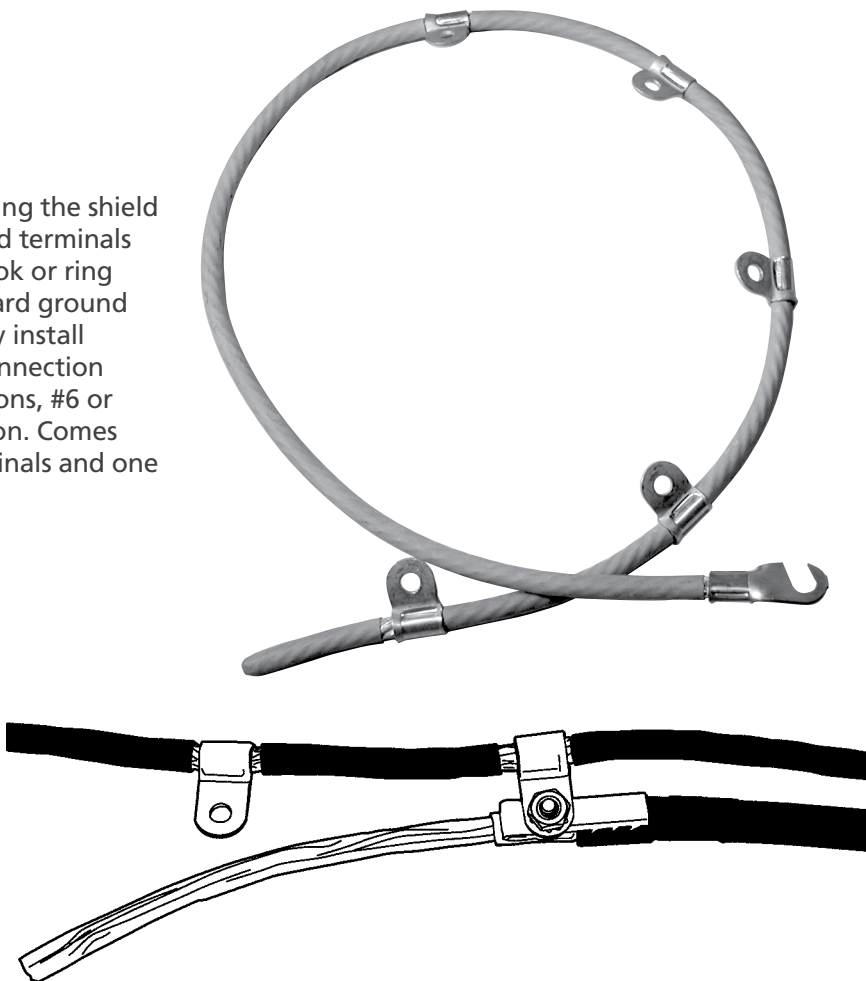
EM-R88H-XX

Add suffix **-G** for green insulation.

Add suffix **-B** for black insulation

Add suffix **-10** for #10 AWG

Add suffix **-6** for #6 AWG

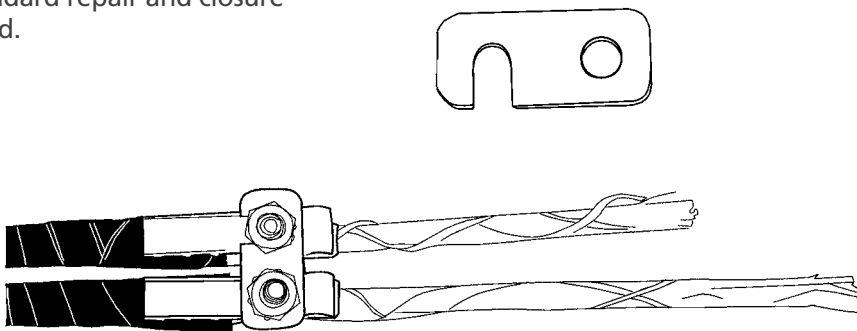


Bridge Connector

Ideal for bonding the shields of buried service wire at splice locations. Small size works well with standard repair and closure systems. Equivalent to #6 AWG, tin plated.

Ordering information

EM-R88-BC – Bridge Connector



Shield Connectors

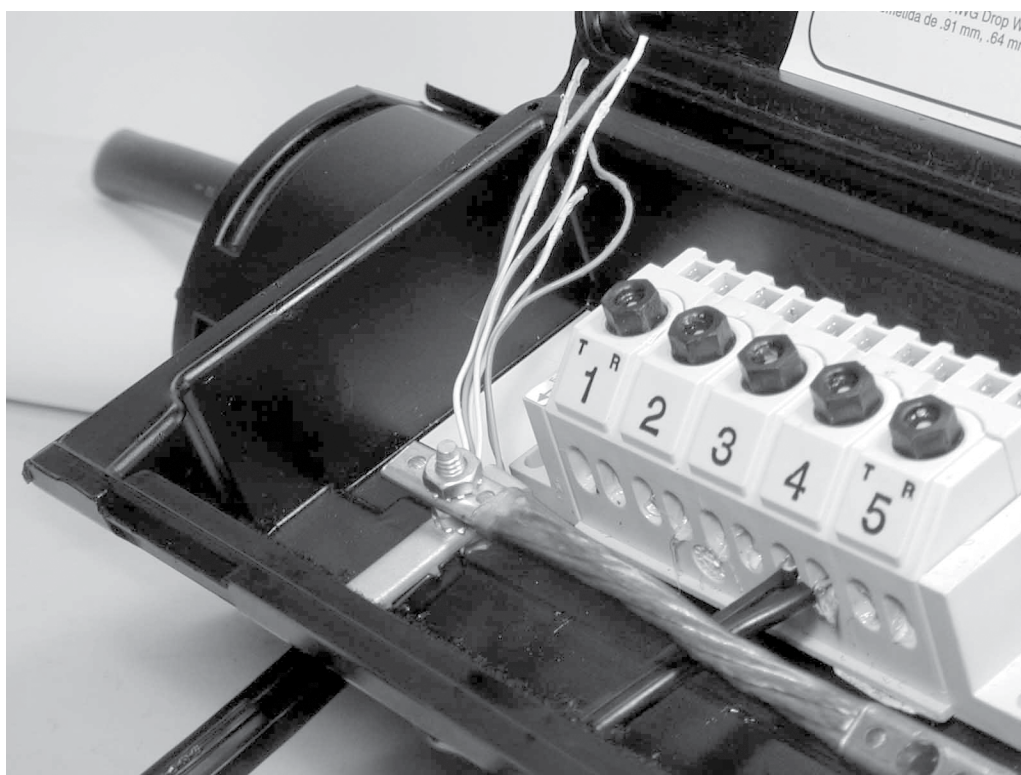
SHIELDED AERIAL SERVICE WIRE BOND KIT



This kit consists of one shield connector for shielded aerial service wire, and one 32"-long piece of clear green Microbond.

Application

Bonding multiple shielded drop wires at aerial terminals.



BONDING &
GROUNDING

Ordering information

EM-3923 KIT – Shielded Aerial Service Wire Bond Kit

EM-3923 – Connector only: top plate, bottom plate, two nuts

Shield Connectors

SHIELDED AERIAL SERVICE WIRE BOND KIT FOR NIDS

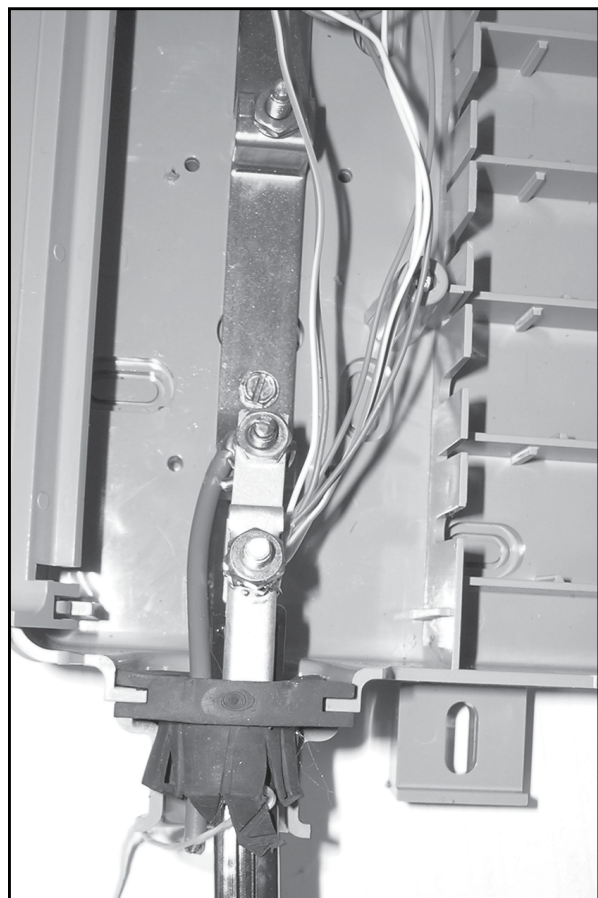
Shield connector with bottom and top plates and one star washer nut, and 6" #10 AWG harness with #10 ring terminal on one end, #10 hook terminal on the other.



Ordering information

EM-3925 – Shielded Service Wire Bond Kit for NIDs

EM-3925R – Shielded Service Wire Bond Kit for NIDs, with #10 ring terminal on each end.



BONDING &
GROUNDING

Shield Connectors

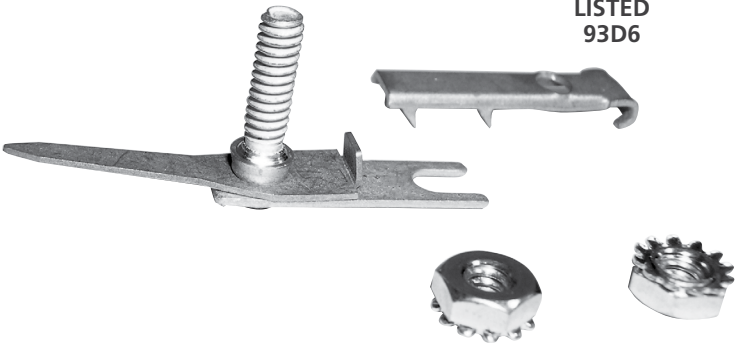
SHIELDED AERIAL SERVICE WIRE CONNECTOR



Shield connector with long stud, short breakaway rigid lead fork, and two nuts.

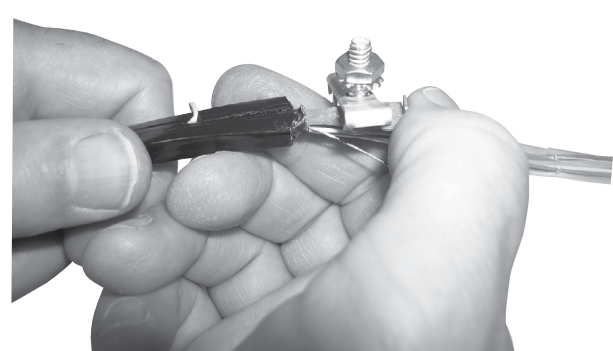
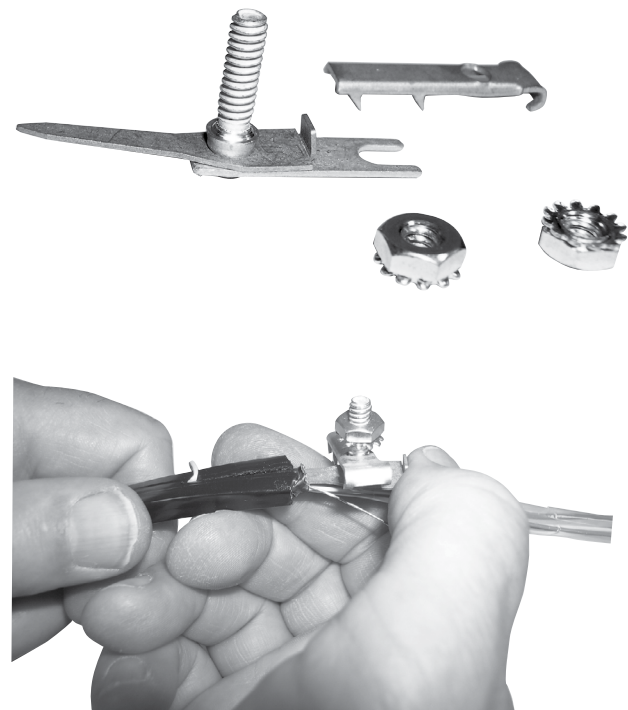
Ordering information

EM-3928 – Shielded Aerial Service Wire Connector



SHIELDED AERIAL SERVICE WIRE BOND KIT FOR NIDS

Shielded aerial service wire kit includes 32" of Microbond with green insulation (see page G16), with one end stripped, and one EM-3928 shield connector with long stud, short breakaway rigid lead fork, and two nuts.



BONDING &
GROUNDING

Ordering information

EM-3928 KIT – Shielded Aerial Service Wire Ground Kit

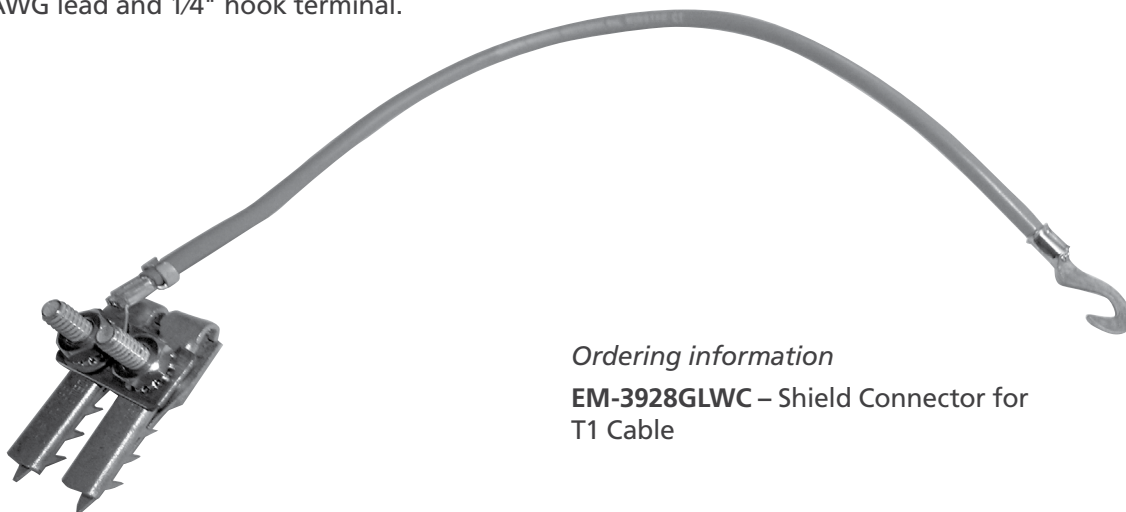
For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Shield Connectors

SHIELD CONNECTOR FOR T1 CABLE

Two shield connectors attached with a bridge connector, with 10" #10 AWG lead and 1/4" hook terminal.



Ordering information

EM-3928GLWC – Shield Connector for T1 Cable

BONDING COIN

Ordering information

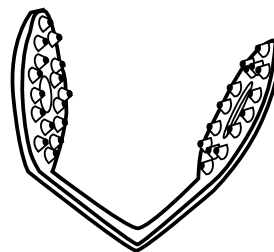
EM-0055

Bonding coin with protrusions on each side, and two flat washers. 1-5/16" center to center

Standard packaging: 100/bx, 2 lb/bx.

EM-0056

13/16" center to center



BONDING STUD COIN

Ordering information

EM-0057

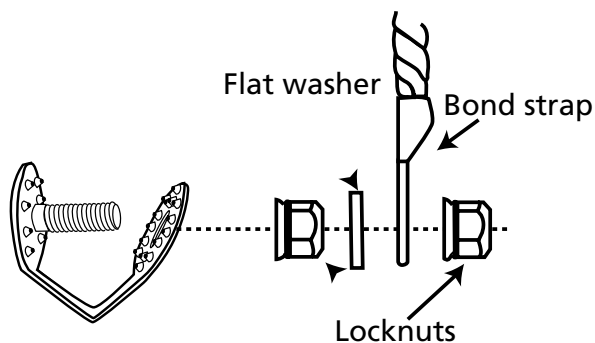
Bonding coin with protrusions on each side, attached bolt, one flat washer, and one nut with compression washer.

Standard packaging: 100/bx, 3 lb/bx.

EM-0058

Bonding coin with 8 protrusions on each side, attached bolt, one flat washer, and two nuts with compression washers.

Standard packaging: 1000



Fiber Optic Cable Shield Connectors

This tool is designed to punch through the shield and sheath of a cable. The spring-loaded handles allow easy, convenient operation. The reach is controlled by an adjustable gauge.

Ordering information

EM-HPT

EM-HPT(S) - To make it easy to punch holes in cable sheath/shield to accommodate either single- or double-stud B-bond, TS, or RS shield connectors, this version of the hole punch tool is marked at the three appropriate positions.



Fiber Optic Cable Shield Connectors

A fiber optic shield connector for both shielded fiber and shielded with strength members (LXE). Available with anti-crush devices for three different shield sizes: .41", .48", .52". Also available with flexible insulated harness, or with tapped fork and loose 10/32 screw.

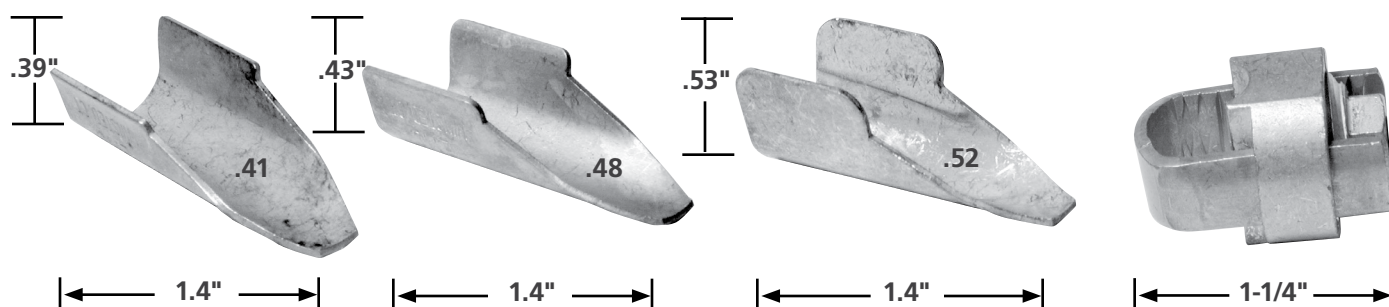
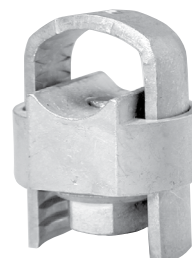
Ordering information

EM-3958-S – Connector with no anti-crush device

Standard packaging: 10/bg, 100/bx, 14 lb/bx.

Anti-crush devices: add suffix to part number to indicate shield diameter: .41, .48, .52.

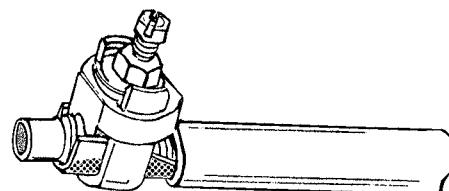
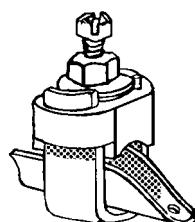
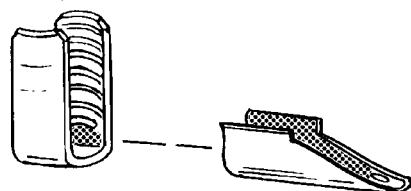
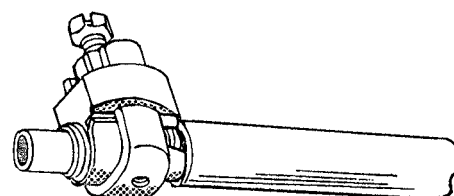
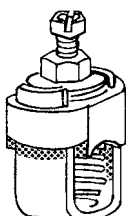
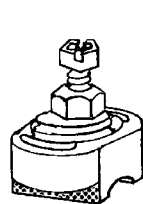
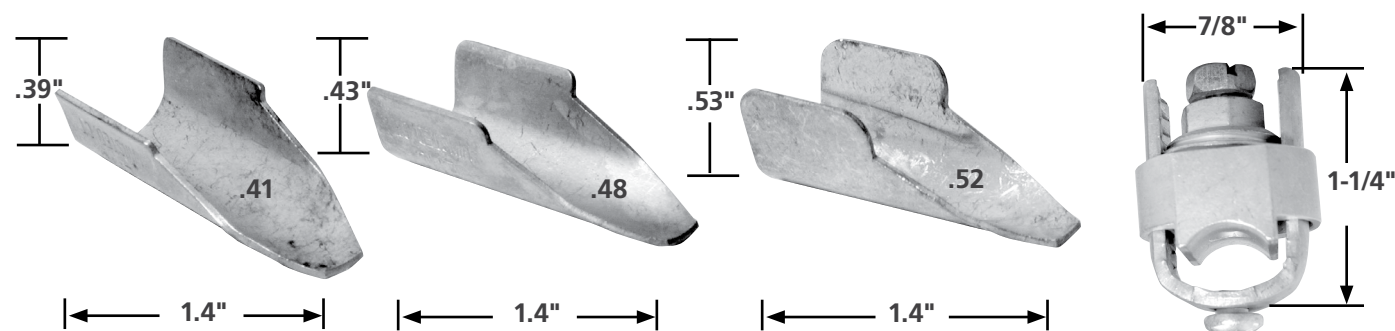
← 7/8" →



EM-3958-SS – Connector with no anti-crush device, with tapped fork and loose 10/32 screw

Standard packaging: 100/bx, 13 lb/bx.

Anti-crush devices: add suffix to part number to indicate shield diameter: .41, .48, .52.



For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



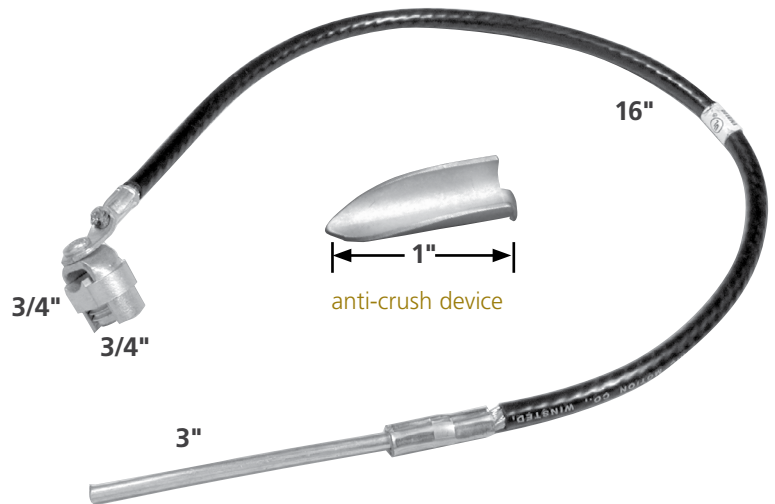
Fiber Optic Cable Shield Connectors

With combination flexible (16") and solid (3") harness, and anti-crush device.

Ordering information

EM-3956-163SP

Standard packaging: 1 kit/lbg, 25 kits/bx, 14 lb/bx.

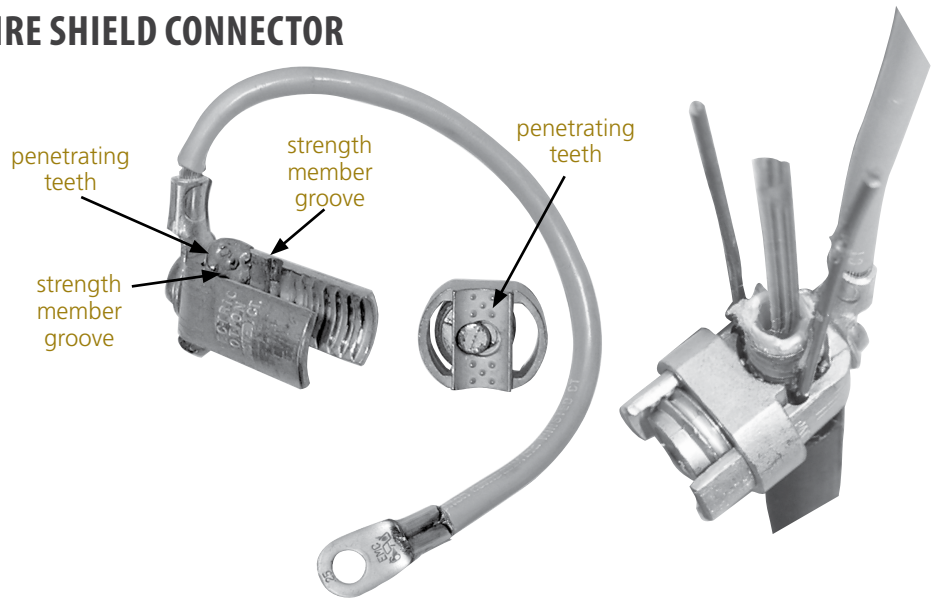


SHIELDED FIBER OPTIC DROP WIRE SHIELD CONNECTOR

Used for 6- or 12-fiber cable with a metallic shield (or armor). Inside of both yoke and pusher ring have tiny penetrating teeth to make electrical contact through the coating of the shield. The legs of the connector yoke have grooves to fit the strength members of a 12-fiber cable.

Ordering information

EM-3956-DD



BONDING &
GROUNDING

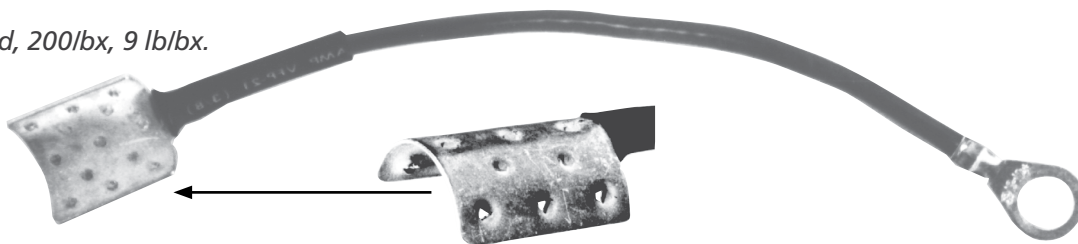
Fiber Optic Cable Shield Connectors

6" insulated bonding harness (#10 AWG) with 3/8" ring terminal at one end, and fiber optic cable shield connector with blossoms at the other end.

Ordering information

EM-6111

Standard packaging: 20/bd, 200/bx, 9 lb/bx.



Insulated bonding harness with 1/4" ring terminal at one end, and 3/4" x 3/4" fiber optic cable shield connector with 9 blossoms at the other end. Crimp termination and harness formed up at 45° angle from top surface of connector. Utilizes #6 AWG bonding harness.

Ordering information

EM-6116-6 – 6" harness

EM-6116-8 – 8" harness

Standard packaging:

500/bx, 46 lb/bx.

EM-6116-12 – 12" harness

Standard packaging: 300/bx, 41 lb/bx.

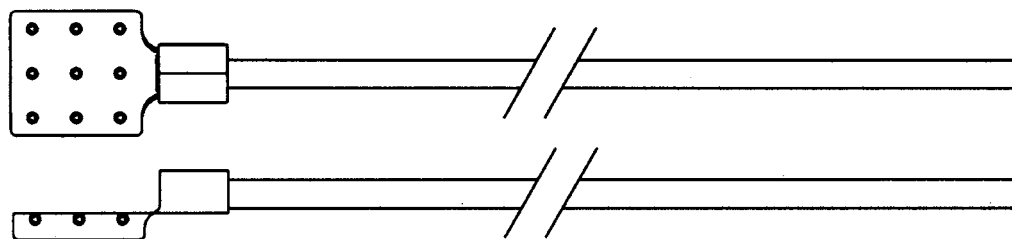


EM-6116-15 – 15" harness

Cable shield connector, straight with a crimp sleeve and 26" of solid #6 tinned.

Ordering information

EM-6116-26T



HOSE CLAMP

Ordering information

EM-6112

Standard packaging: 20/bg, 100/bx, 3 lb/bx. No minimum order.



Miscellaneous

CROSS CONNECT/FRAME & JUMPER WIRE

A twisted pair of #22 or #24 AWG tinned, solid copper conductor with a semi-rigid PVC insulation. Used on distributing frames and cross-connecting racks, and for wiring various central office equipment. Standard lengths are 250, 400, 800, 1000 feet/spool. Standard color combinations are: red/white, violet/white, blue/white, green/white, orange/white, black/white, brown/white. A twisted pair of #22 or #24 AWG tinned, solid copper conductor with a semi-rigid PVC insulation. Used on distributing frames and cross-connecting racks, and for wiring various central office equipment. Standard lengths are 250, 400, 800, 1000 feet/spool. Standard color combinations are: red/white, violet/white, blue/white, green/white, orange/white, black/white, brown/white.

Ordering information:

#22 AWG:
EM-0222 RW-XXX (length)
EM-0222 GW-XXX
EM-0222 VW-XXX
EM-0222 BKW-XXX
EM-0222 BW-XXX
EM-0222 BR-XXX

#24 AWG:
EM-0224 GW-XXX
EM-0224 OW-XXX
EM-0224 RW-XXX

Shipping information— standard packaging

#22 AWG:
250' sp, 24 sp/bx
400' sp, 20 sp/bx
800' sp, 12 sp/bx
1000' sp, 12 sp/bx

#24 AWG:
250' sp, 24 sp/bx
400' sp, 20 sp/bx
800' sp, 24 sp/bx
1000' sp, 12 sp/bx

EM-0224 BR-800 CT5 – 1 pr #24 AWG blue/red, 800 ft spool, Cat. 5 twist.



5-CONDUCTOR TWISTED WIRE, #22 OR #24 AWG



Tinned conductor, PVC insulation. For T1 lines. Fifth conductor can be used for tracing. Colors: red/green/white/black/blue or any other combination.

Ordering information:

EM-0522 RGWBKBL-XXX (length) #22 AWG
EM-0524 RGWBKBL-XXX (length) #24 AWG

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

Miscellaneous

FOAM TAPE

Open cell plastic tape for centering wire works in a closure.

Ordering information :

EM-4800 – 2-1/2" x 1/4" x 72"

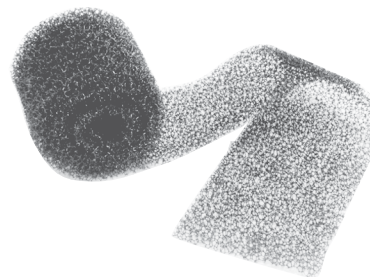
Standard packaging: 100 rl/bx, 8 lb/bx

EM-4804 – 4" x 1/4" x 72"

Standard packaging: 50 rl/bx, 7 lb/bx

EM-4808 – 18" x 1/4" x 72"

Standard packaging: 20 rl/bx, 12 lb/bx



WARNING TAGS

Ordering information

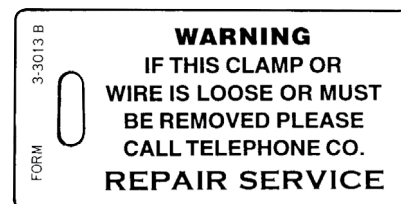


EM-3040-TAG Round "INTERNAL GROUND DO NOT REMOVE" tag. Plastic, UV resistant.

Standard packaging: 500/bx, 25/bg, 2 lb/bx.

EM-5050-TAG Rectangular "WARNING" tag. Plastic, UV-resistant.

Standard packaging: 2 lb/ 200 pcs.



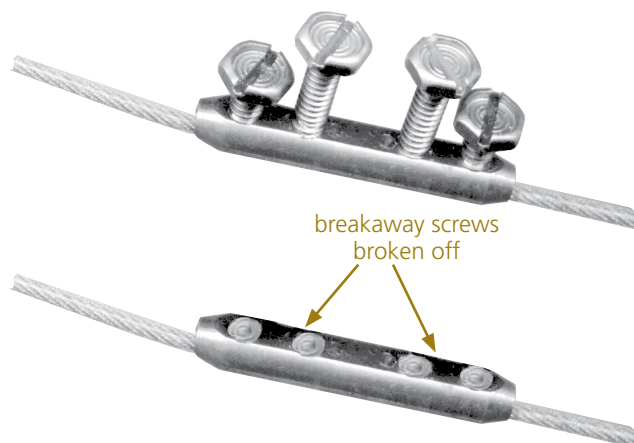
Miscellaneous

TONING WIRE CONNECTOR

Ordering information

EM-4543

Standard packaging: 2/lbg, 50/bx, 5 lb/bx.



TONING WIRE

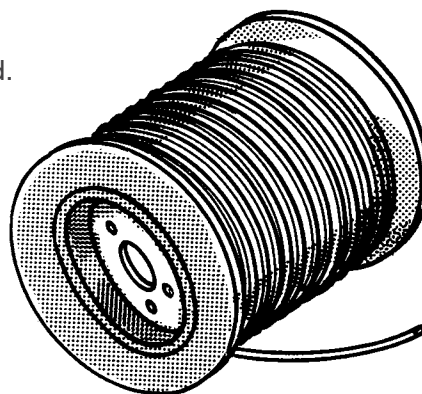
1/16" diameter, stainless steel cable, 7 x 7 construction, vinyl coated.

Ordering information :

EM-4545 2.5 – 2,500-ft. spool, 29 lb

EM-4545 5.0 – 5,000-ft. spool, 52 lb

EM-4545-XXXX – XXXX = any requested length



BONDING &
GROUNDING

Miscellaneous – Ground Bars

GROUND BARS

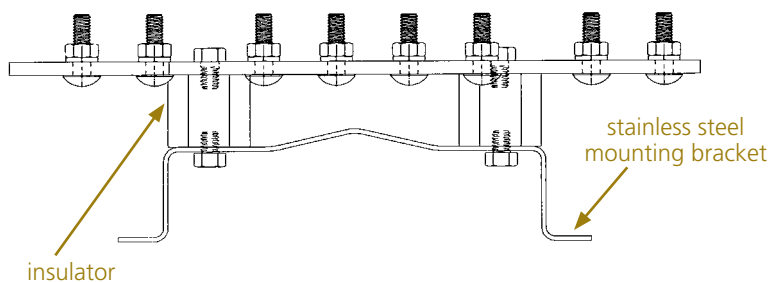
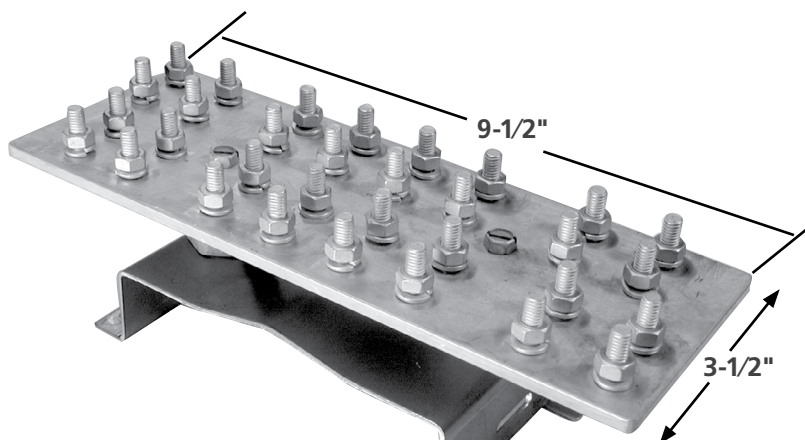
16 Position Ground Bar with Bracket

3/4" spacing, 8 positions on top, 8 on bottom. 9-1/2" long, 3-1/2" wide. Tin plated. Two insulators, 1" thick. 6mm studs. Stainless steel mounting bracket for mounting on pole or on side of building.

Ordering information:

EM-4116.75ISM6

Standard packaging: 2/bx, 9 lb/bx.



6 Position Ground Bar

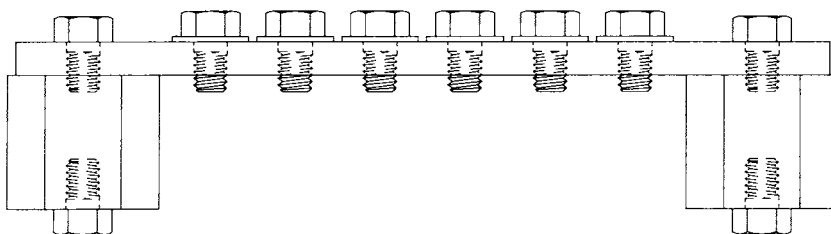
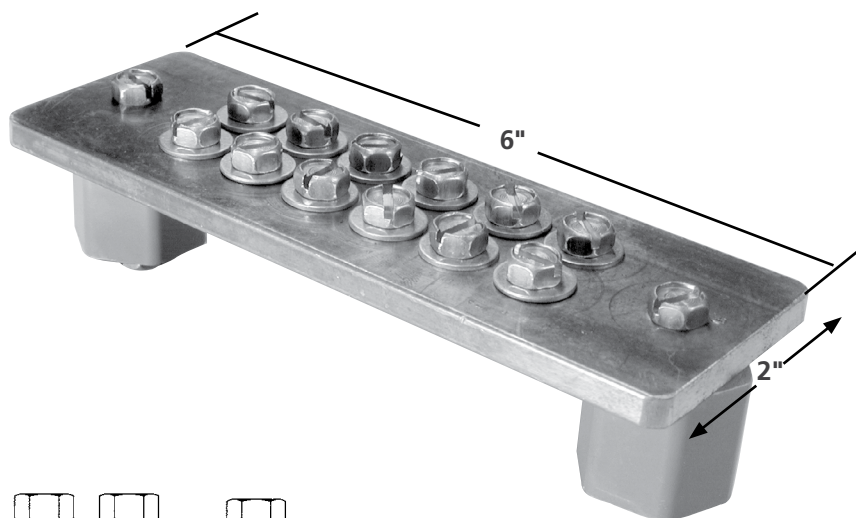
6" long, 5/8" spacing, two 5/16" diameter mounting holes. Six sets of 1/4 x 20 tapped holes, 8 sets brass hex screws, 6 sets flat washers, and two 1" long plastic insulators.

Ordering information:

EM-4120

Standard packaging: 10/bx, 14 lb/bx.

Add suffix -T for tin plating.



Miscellaneous – Ground Bars

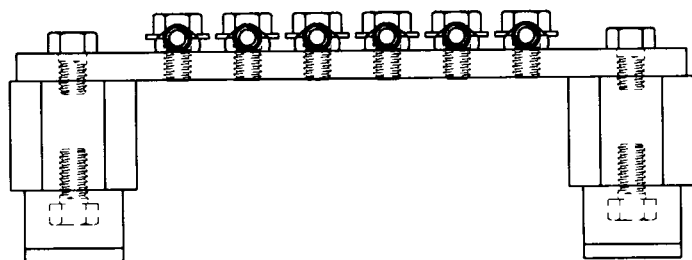
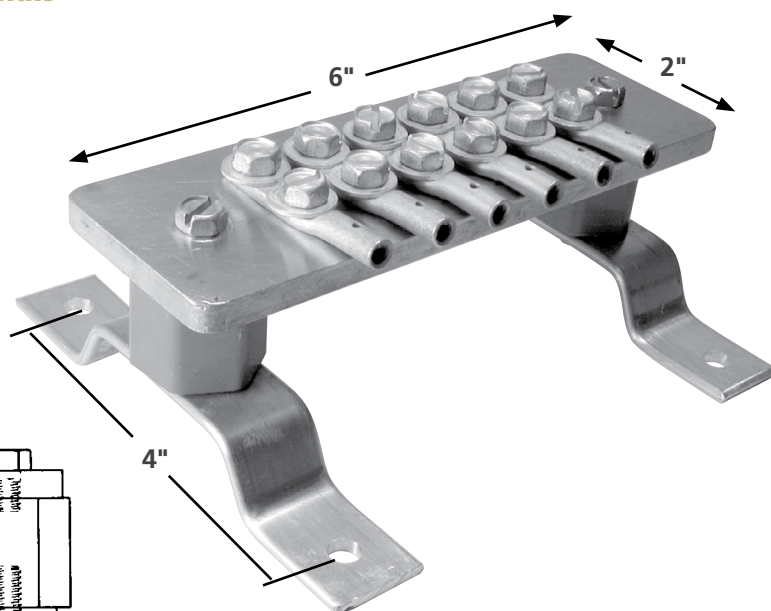
6 Position Ground Bar with Screw-on Terminals

6" long, 2" wide, 5/8" spacing, six mounting positions across. Mounting brackets attached, as well as six double-holed screw-on terminals.

Ordering information:

EM-4120-1

Add suffix -T for tin plating.



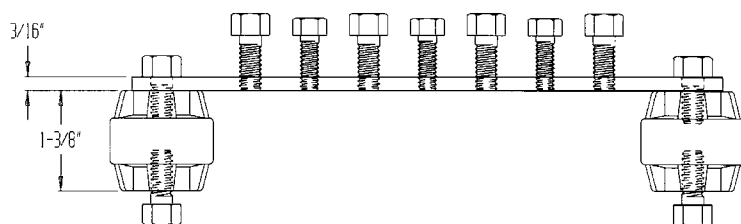
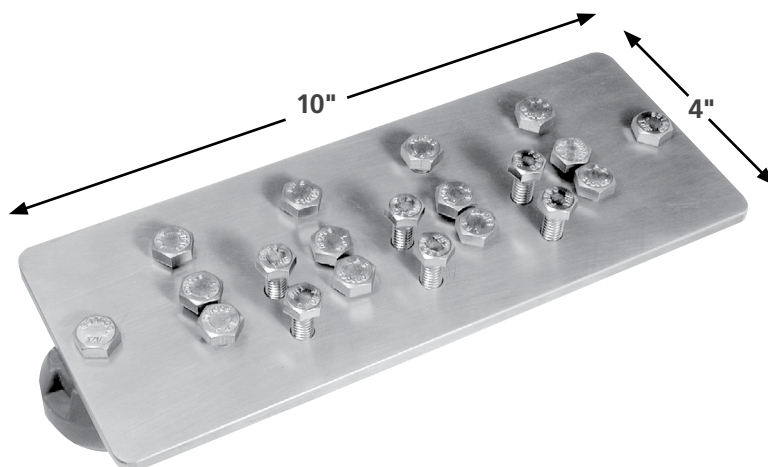
7 Position Copper Ground Bar

10" long, 4" wide, 5/8" spacing, 7 mounting positions across, and two isolator mounting holes, 3/8" thru. Pattern from left: 3 holes 3/8 x 16; 2 holes 5/16 x 18; repeat. Stainless steel hex head screws, Glastic isolators.

Ordering information:

EM-4121

Standard packaging: 2/bx, 9 lb/bx.



BONDING &
GROUNDING

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

Miscellaneous – Ground Bars

GROUND BARS, CONTINUED

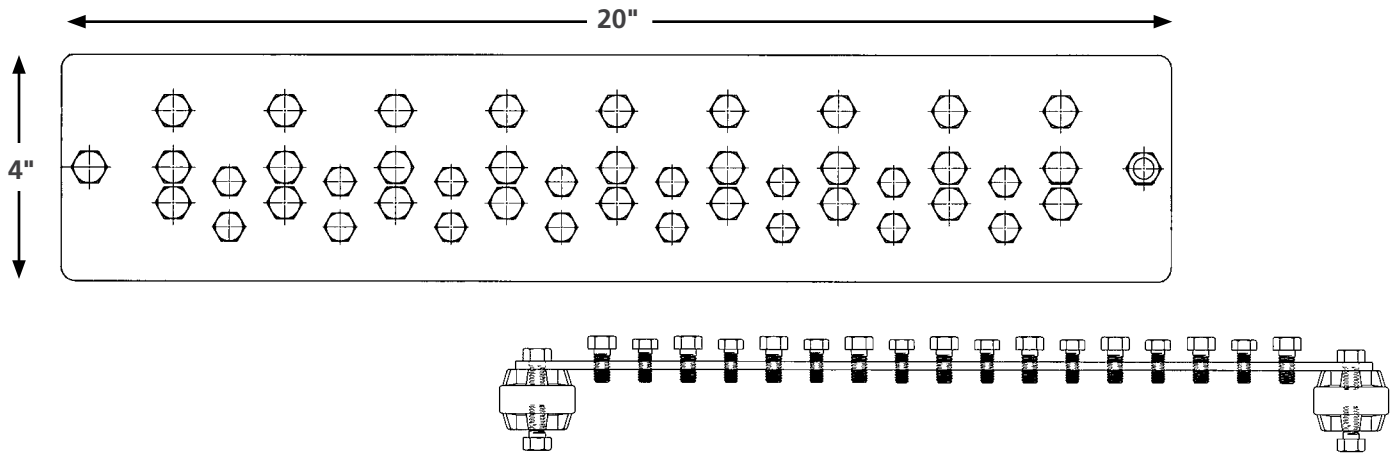
17 Position Copper Ground Bar

20" long, 4" wide, 5/8" spacing, 17 mounting positions across with hex head screws, and two insulators.

Ordering information:

EM-4122

Standard packaging: 28 lb/4 pcs.



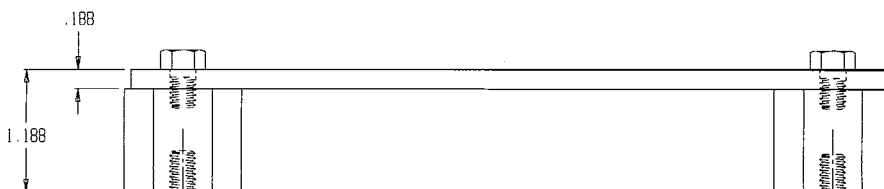
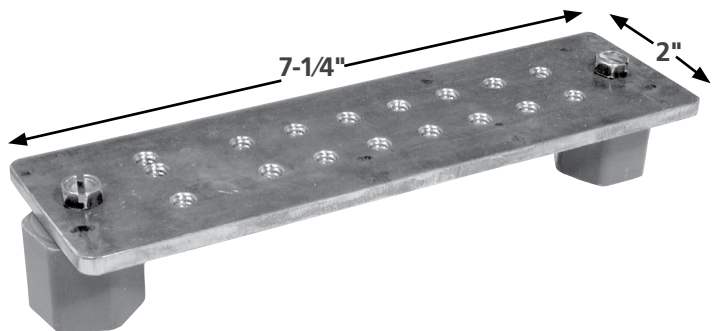
8 Position Ground Bar with Isolators

7-1/4" long, 2" wide, 5/8" spacing, two 5/16" diameter mounting holes.

Ordering information:

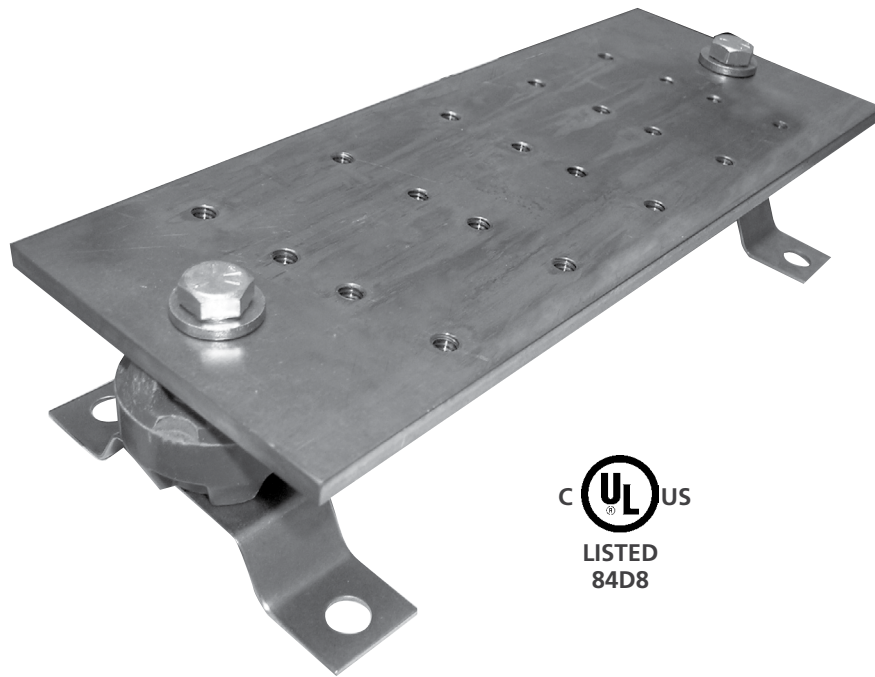
EM-4123

Standard packaging: 15/lbx, 16 lb.bx.



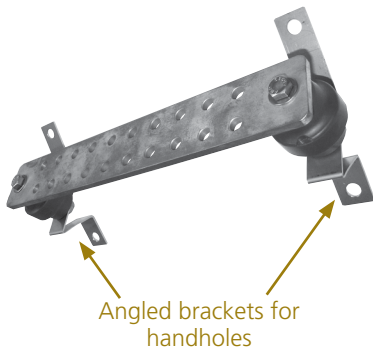
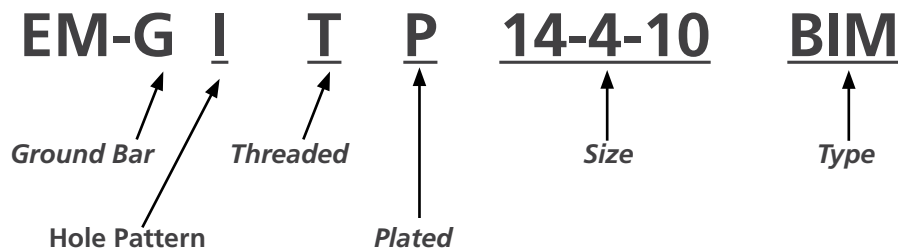
Miscellaneous – Ground Bars

SPECIFYING GROUND BARS



Ground Bar Numbering System

Follow the three steps below to specify the type and size of ground bar you need. The example pictured above is a ground bar with wall mounting brackets and insulators. The ground bar is 1/4" thick, 4" wide, and 10" long. It has a hole pattern "I" with tapped holes.



1. **HOLE PATTERN:** See page G153 to specify hole pattern. Add suffix -T after hole pattern for 1/4 x 20 threaded holes.
2. **SIZE:** Thickness, width, length in inches.
3. **TYPE:**
 - B - Plain ground bar
 - BI - Ground bar with insulators
 - BIM - Ground bar with wall mounting brackets and insulators.

Add suffix -P after type designation for tin plating.
Add suffix -A after type designation for wall mounting brackets angled for handholes.

See next page for ground bar types.

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

Miscellaneous – Ground Bars

GROUND BAR TYPES

See previous page to build a part number.

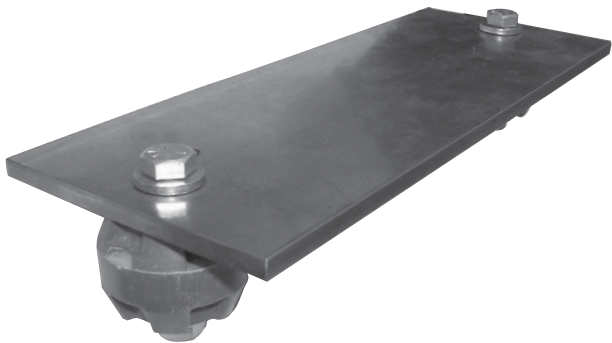
Ground Bar Type B

Plain ground bar



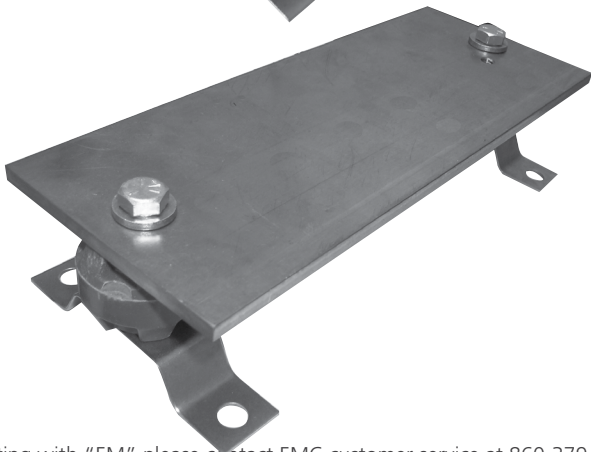
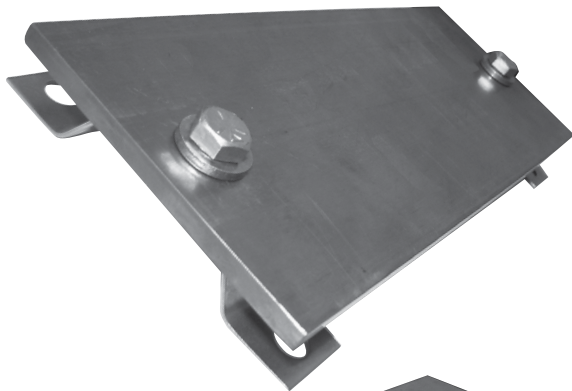
Ground Bar Type BI

Ground bar with insulators



Ground Bar Type BM

Ground bar with 1" high mounting brackets



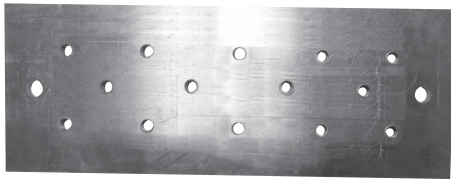
For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



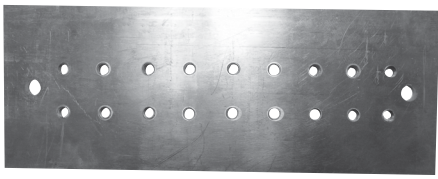
Miscellaneous – Ground Bars

GROUND BAR HOLE PATTERNS

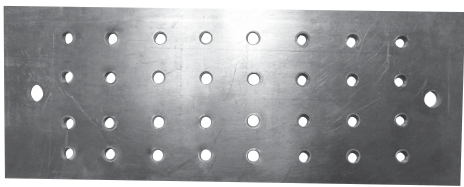
See page G151 to build a part number.



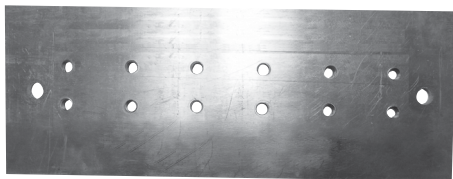
Pattern A



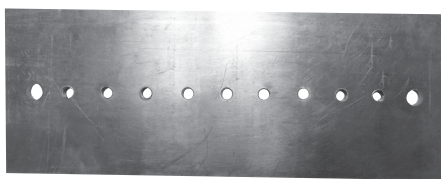
Pattern G



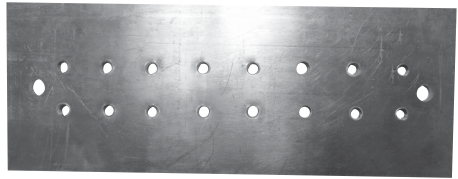
Pattern Q



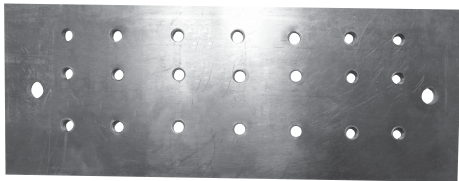
Pattern B



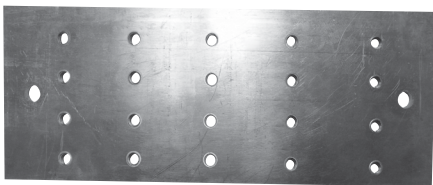
Pattern H



Pattern X



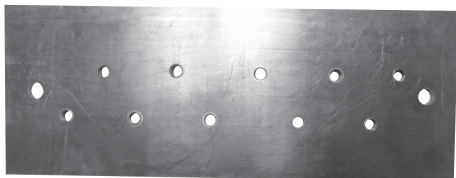
Pattern C



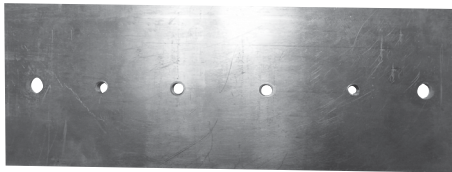
Pattern I



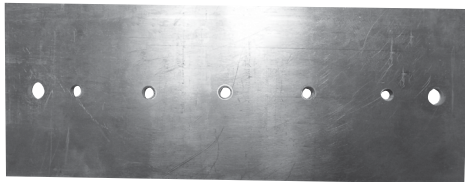
Pattern N



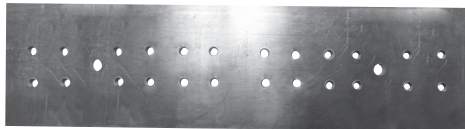
Pattern D



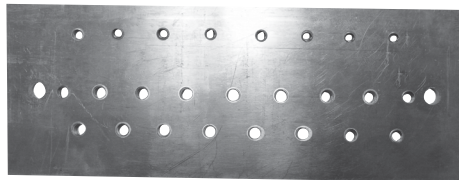
Pattern J



Pattern E



Pattern K



Pattern F

BONDING &
GROUNDING

Maximum conductor size is 2/0.

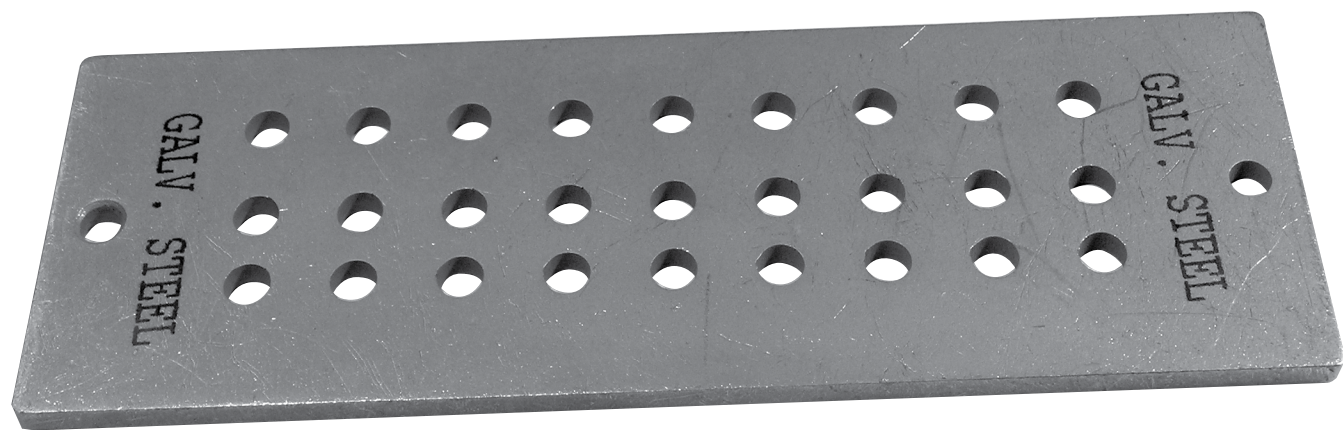
For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com



Miscellaneous – Ground Bars

GALVANIZED STEEL GROUND BARS

BAR ONLY – Verizon Wireless Galvanized Steel Ground Bar Replacement



Ordering information:

EM-SGC 49-VZW	<i>Galvanized ground bar, 1/4" x 4" x 9" with 7/16" mounting holes (bar only).</i>
EM-SGC 412-VZW	<i>Galvanized ground bar, 1/4" x 4" x 12" with 7/16" mounting holes (bar only).</i>
EM-SGC 418-VZW	<i>Galvanized ground bar, 1/4" x 4" x 18" with 7/16" mounting holes (bar only).</i>
EM-SGC 420-VZW	<i>Galvanized ground bar, 1/4" x 4" x 20" with 7/16" mounting holes (bar only).</i>
EM-SGC 424-VZW	<i>Galvanized ground bar, 1/4" x 4" x 24" with 7/16" mounting holes (bar only).</i>

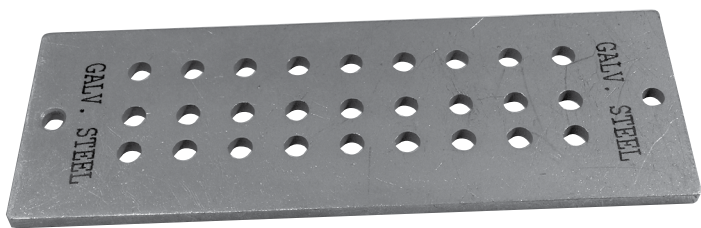


Miscellaneous – Ground Bars

GALVANIZED STEEL GROUND BARS CONTINUED

BAR ONLY, WITH ANTI-THEFT HARDWARE Verizon Wireless Galvanized Steel Ground Bar Replacement

NONREMOVABLE



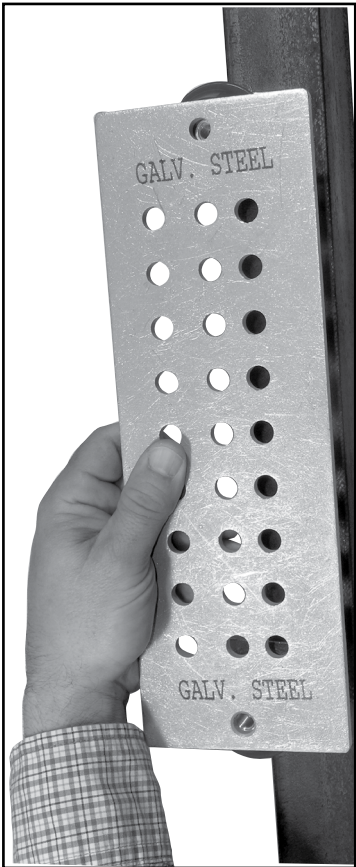
Galvanized steel ground bar



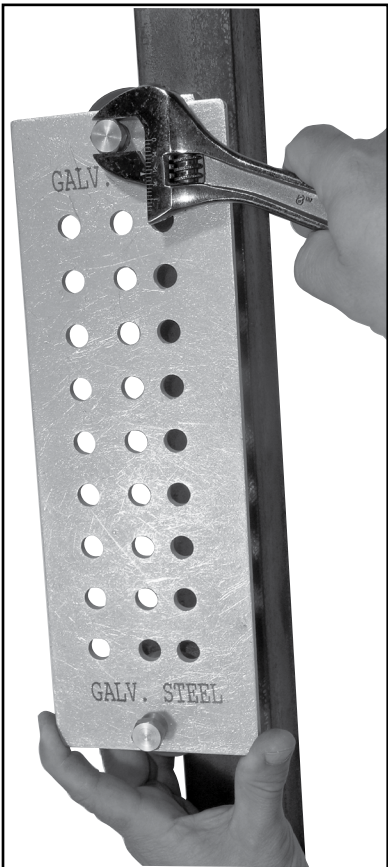
Two 3/8" torque shear head stainless steel bolts (nonremovable) with anti-loosening compound in threads



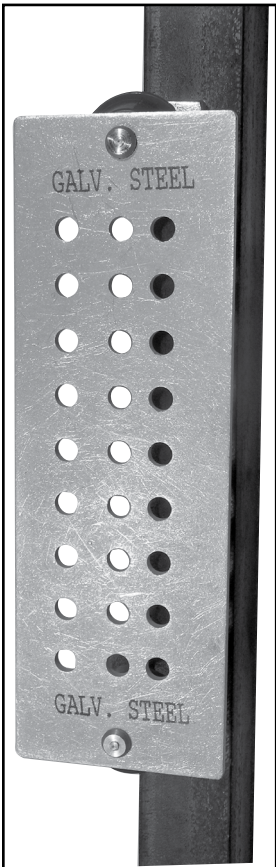
Isolators and mounting hardware remaining after ground bar has been stolen.



Align replacement ground bar with isolators.



Insert torque shear head bolts. Tighten bolts until heads shear off.



Heads broken off.

BONDING &
GROUNDING



Miscellaneous – Ground Bars

GALVANIZED STEEL GROUND BARS (CONTINUED)

NONREMOVABLE

BAR ONLY, WITH ANTI-THEFT HARDWARE

Verizon Wireless Galvanized Steel Ground Bar Replacement

Ordering information:

EM-SGC 49-VZW-NR	Galvanized ground bar, 1/4" x 4" x 9" with 7/16" mounting holes and two stainless steel torque shear head bolts. With anti-loosening compound. Nonremovable.
EM-SGC 412-VZW-NR	Galvanized ground bar, 1/4" x 4" x 12" with 7/16" mounting holes and two stainless steel torque shear head bolts. With anti-loosening compound. Nonremovable.
EM-SGC 418-VZW-NR	Galvanized ground bar, 1/4" x 4" x 18" with 7/16" mounting holes and two stainless steel torque shear head bolts. With anti-loosening compound. Nonremovable.
EM-SGC 420-VZW-NR	Galvanized ground bar, 1/4" x 4" x 20" with 7/16" mounting holes and two stainless steel torque shear head bolts. With anti-loosening compound. Nonremovable.
EM-SGC 424-VZW-NR	Galvanized ground bar, 1/4" x 4" x 24" with 7/16" mounting holes and two stainless steel torque shear head bolts. With anti-loosening compound. Nonremovable.

For a 1/2" bolt, add suffix .5.

Miscellaneous – Ground Bars

GALVANIZED STEEL GROUND BARS (CONTINUED)

WITH ISOLATORS AND WALL MOUNTING BRACKET

Verizon Wireless Galvanized Steel Ground Bar



Ordering information:

- EM-SGC 49-VZW-BIM** Galvanized ground bar, 1/4" x 4" x 9" with 7/16" mounting holes, isolators, and wall mounting bracket.
- EM-SGC 412-VZW-BIM** Galvanized ground bar, 1/4" x 4" x 12" with 7/16" mounting holes, isolators, and wall mounting bracket.
- EM-SGC 418-VZW-BIM** Galvanized ground bar, 1/4" x 4" x 18" with 7/16" mounting holes, isolators, and wall mounting bracket.
- EM-SGC 420-VZW-BIM** Galvanized ground bar, 1/4" x 4" x 20" with 7/16" mounting holes, isolators, and wall mounting bracket.
- EM-SGC 424-VZW-BIM** Galvanized ground bar, 1/4" x 4" x 24" with 7/16" mounting holes, isolators, and wall mounting bracket.



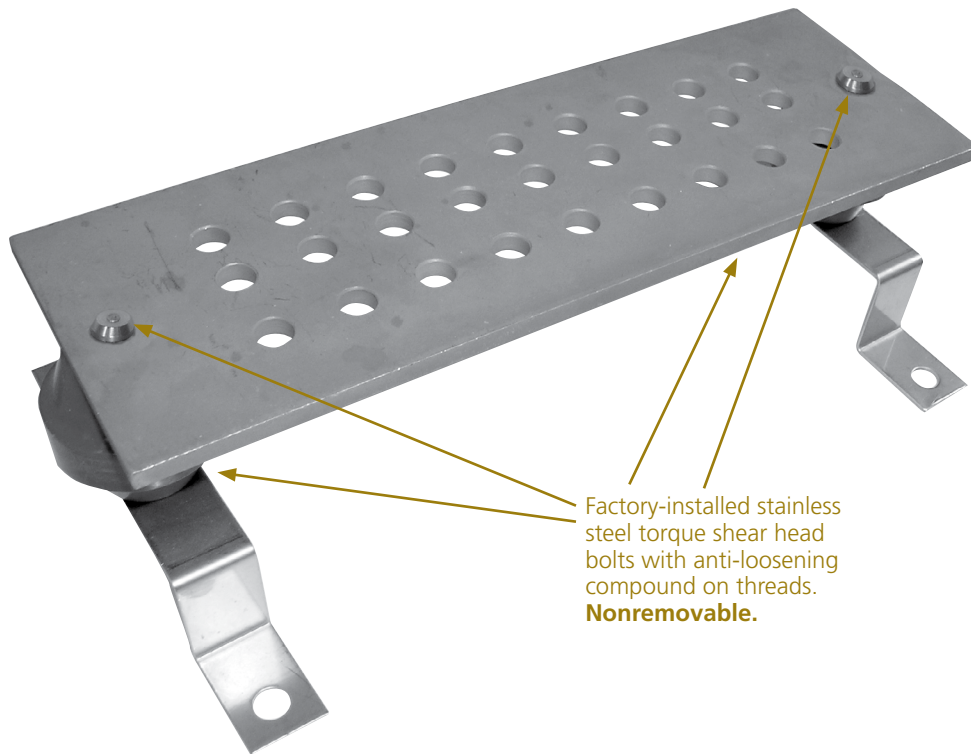
Miscellaneous – Ground Bars

GALVANIZED STEEL GROUND BARS (CONTINUED)

WITH ISOLATORS AND WALL MOUNTING BRACKET

Verizon Wireless Galvanized Steel Ground Bar

NONREMOVABLE



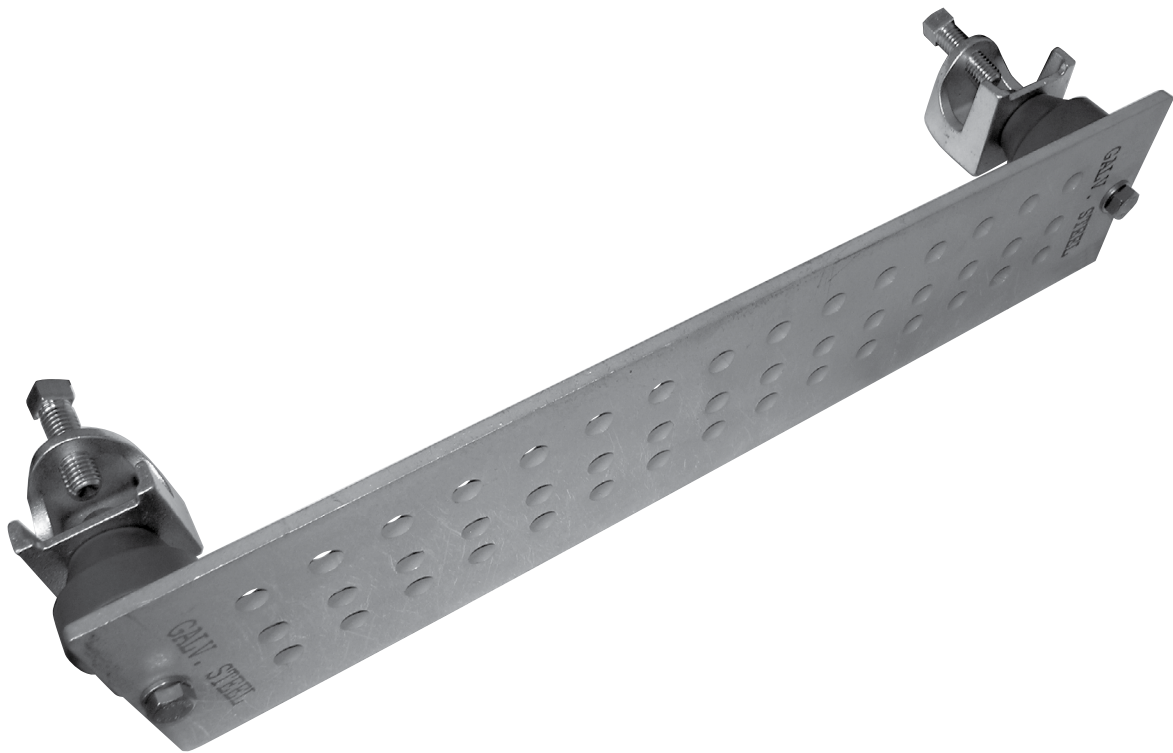
Ordering information:

- | | |
|----------------------------|---|
| EM-SG 9-VZW-BIM-NR | Galvanized ground bar, 1/4" x 4" x 9" with 7/16" mounting holes, isolators, and wall mounting bracket. Nonremovable. |
| EM-SG 12-VZW-BIM-NR | Galvanized ground bar, 1/4" x 4" x 12" with 7/16" mounting holes, isolators, and wall mounting bracket. Nonremovable. |
| EM-SG 18-VZW-BIM-NR | Galvanized ground bar, 1/4" x 4" x 18" with 7/16" mounting holes, isolators, and wall mounting bracket. Nonremovable. |
| EM-SG 20-VZW-BIM-NR | Galvanized ground bar, 1/4" x 4" x 20" with 7/16" mounting holes, isolators, and wall mounting bracket. Nonremovable. |
| EM-SG 24-VZW-BIM-NR | Galvanized ground bar, 1/4" x 4" x 24" with 7/16" mounting holes, isolators, and wall mounting bracket. Nonremovable. |

Miscellaneous – Ground Bars

GALVANIZED STEEL GROUND BARS (CONTINUED)

WITH ISOLATORS AND I-BEAM SUPPORT CLAMP Verizon Wireless Galvanized Steel Ground Bar



Ordering information:

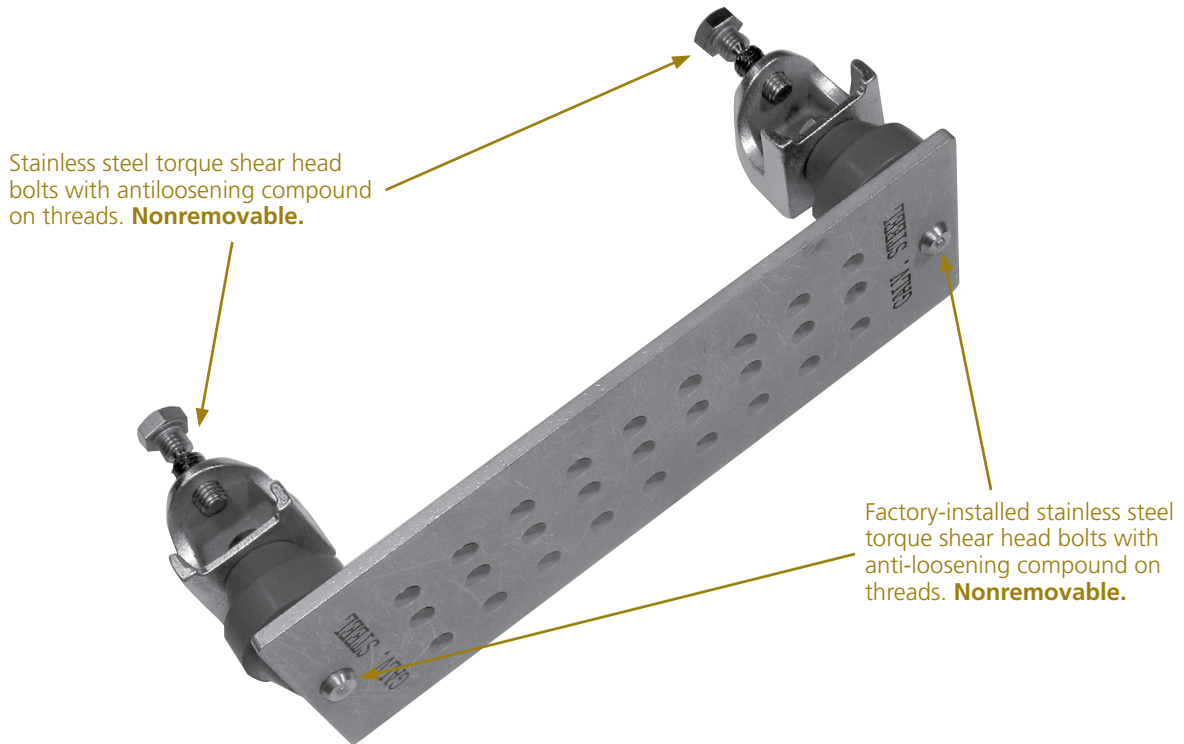
EM-SGC 49-VZW-BIIB	Galvanized ground bar, 1/4" x 4" x 9" with 7/16" mounting holes, isolators, and I-beam support clamp.
EM-SGC 412-VZW-BIIB	Galvanized ground bar, 1/4" x 4" x 12" with 7/16" mounting holes, isolators, and I-beam support clamp.
EM-SGC 418-VZW-BIIB	Galvanized ground bar, 1/4" x 4" x 18" with 7/16" mounting holes, isolators, and I-beam support clamp.
EM-SGC 420-VZW-BIIB	Galvanized ground bar, 1/4" x 4" x 20" with 7/16" mounting holes, isolators, and I-beam support clamp.
EM-SGC 424-VZW-BIIB	Galvanized ground bar, 1/4" x 4" x 24" with 7/16" mounting holes, isolators, and I-beam support clamp.

Miscellaneous – Ground Bars

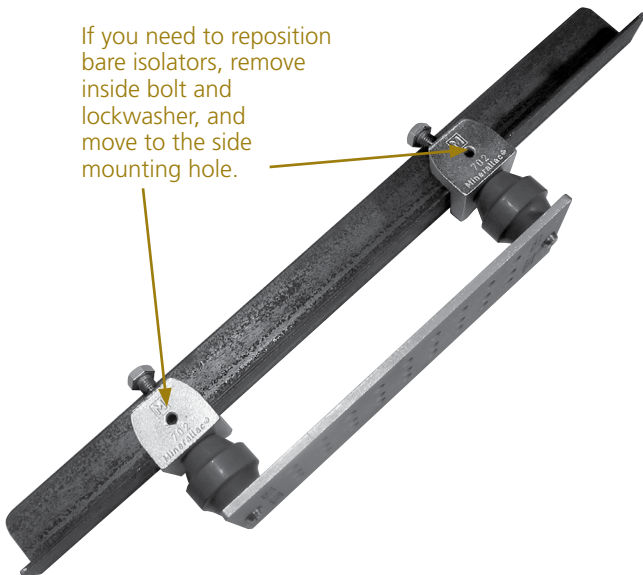
GALVANIZED STEEL GROUND BARS (CONTINUED)

WITH ISOLATORS AND I-BEAM SUPPORT CLAMP Verizon Wireless Galvanized Steel Ground Bar

NONREMOVABLE



If you need to reposition bare isolators, remove inside bolt and lockwasher, and move to the side mounting hole.



Re-align ground bar to proper position. Tighten bolts until the heads shear off.

Align ground bar on structure or tower where needed.

Please see next page for ordering information.

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

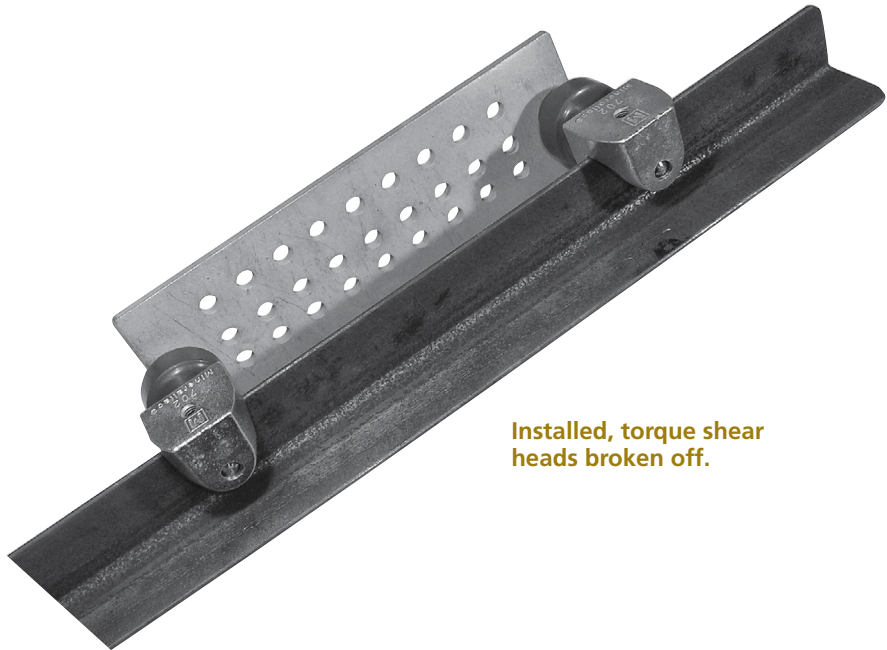


Miscellaneous – Ground Bars

GALVANIZED STEEL GROUND BARS (CONTINUED)

WITH ISOLATORS AND i-BEAM SUPPORT BRACKET
Verizon Wireless Galvanized Steel Ground Bar

NONREMOVABLE



Installed, torque shear heads broken off.

Ordering information:

EM-SG 9-VZ-BIIB-NR	Galvanized ground bar (nonremovable), 1/4" x 4" x 9" with 7/16" mounting holes, isolators, and I-beam support clamp.
EM-SG 12-VZ-BIIB-NR	Galvanized ground bar (nonremovable), 1/4" x 4" x 12" with 7/16" mounting holes, isolators, and I-beam support clamp.
EM-SG 18-VZ-BIIB-NR	Galvanized ground bar (nonremovable), 1/4" x 4" x 18" with 7/16" mounting holes, isolators, and I-beam support clamp.
EM-SG 20-VZ-BIIB-NR	Galvanized ground bar (nonremovable), 1/4" x 4" x 20" with 7/16" mounting holes, isolators, and I-beam support clamp.
EM-SG 24-VZ-BIIB-NR	Galvanized ground bar (nonremovable), 1/4" x 4" x 24" with 7/16" mounting holes, isolators, and I-beam support clamp.

Miscellaneous – Ground Bars

GALVANIZED STEEL GROUND BARS (CONTINUED)

WITH ISOLATORS AND POLE SUPPORT CLAMP Verizon Wireless Galvanized Steel Ground Bar



Ordering information:

EM-SGC 49-VZW-BIPS	<i>Galvanized ground bar, 1/4" x 4" x 9" with 7/16" mounting holes, isolators, and pole support clamp.</i>
EM-SGC 412-VZW-BIPS	<i>Galvanized ground bar, 1/4" x 4" x 12" with 7/16" mounting holes, isolators, and pole support clamp.</i>
EM-SGC 418-VZW-BIPS	<i>Galvanized ground bar, 1/4" x 4" x 18" with 7/16" mounting holes, isolators, and pole support clamp.</i>
EM-SGC 420-VZW-BIPS	<i>Galvanized ground bar, 1/4" x 4" x 20" with 7/16" mounting holes, isolators, and pole support clamp.</i>
EM-SGC 424-VZW-BIPS	<i>Galvanized ground bar, 1/4" x 4" x 24" with 7/16" mounting holes, isolators, and pole support clamp.</i>

Miscellaneous – Ground Bars

GALVANIZED STEEL GROUND BARS (CONTINUED)

WITH ISOLATORS AND POLE SUPPORT CLAMP Verizon Wireless Galvanized Steel Ground Bar

NONREMOVABLE



Ordering information:

EM-SG 9-VZ-BIIB-NR	Galvanized ground bar, 1/4" x 4" x 9" with 7/16" mounting holes, isolators, and pole support clamp. Nonremovable.
EM-SG 12-VZ-BIPS-NR	Galvanized ground bar, 1/4" x 4" x 12" with 7/16" mounting holes, isolators, and pole support clamp. Nonremovable.
EM-SG 18-VZ-BIPS-NR	Galvanized ground bar, 1/4" x 4" x 18" with 7/16" mounting holes, isolators, and pole support clamp. Nonremovable.
EM-SG 20-VZ-BIPS-NR	Galvanized ground bar, 1/4" x 4" x 20" with 7/16" mounting holes, isolators, and pole support clamp. Nonremovable.
EM-SG 24-VZ-BIPS-NR	Galvanized ground bar, 1/4" x 4" x 24" with 7/16" mounting holes, isolators, and pole support clamp. Nonremovable.

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

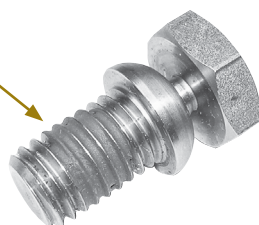


Miscellaneous – Ground Bars

GALVANIZED STEEL GROUND BAR ACCESSORIES

NONREMOVABLE Replacement Bolt for Galvanized Steel Ground Bars with 1/2" mounting hole, 1/2" isolator mounting hole

Fits 1/2" isolator
mounting hole



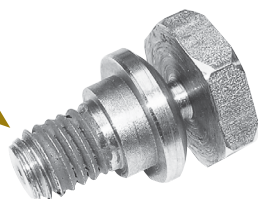
Ordering information:

EM-12TSHB-SS

*Stainless Steel Bolt, 1/2–13. Torque-shear head with anti-loosening compound on threads. **Nonremovable***

NONREMOVABLE Replacement Bolt for Galvanized Steel Ground Bars with 1/2" mounting hole, 3/8" isolator mounting hole

Fits 3/8" isolator
mounting hole



Ordering information:

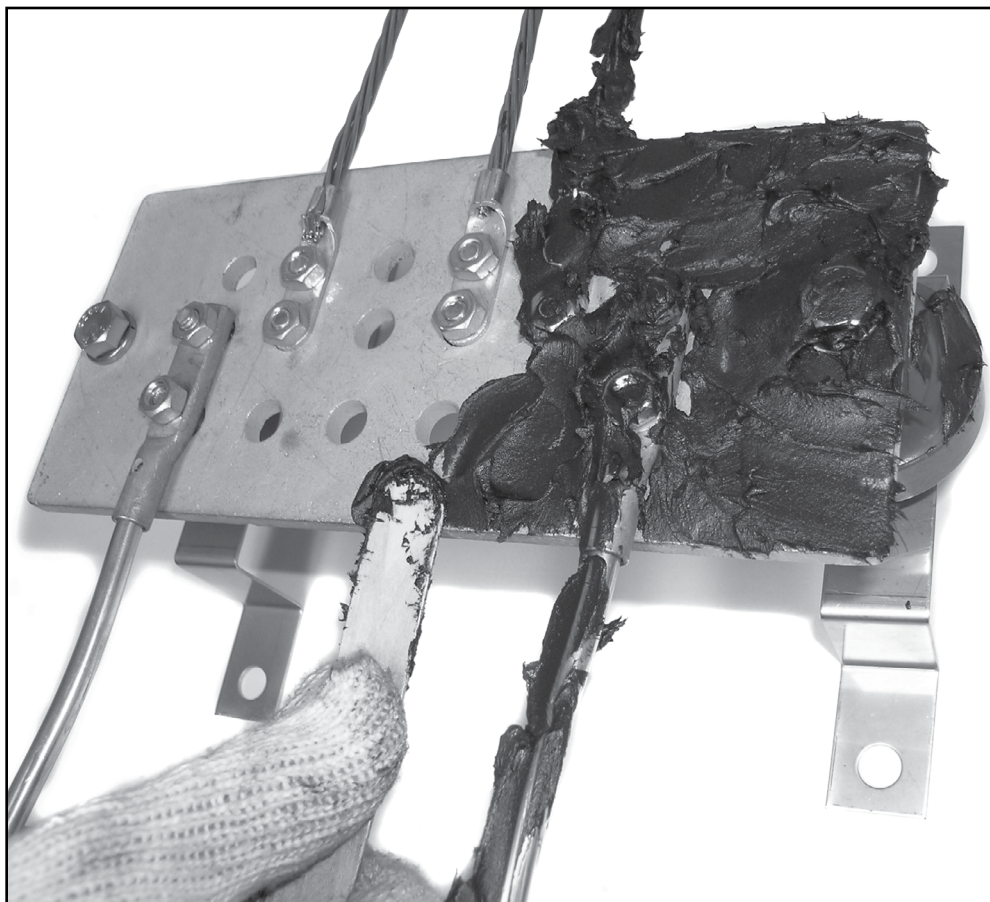
EM-38TSHB-SS.5

*Stainless Steel Bolt, 3/8–16, with 1/2" shoulder. Torque-shear head with anti-loosening compound on threads. **Nonremovable***

Miscellaneous

GALVANIZED STEEL GROUND BAR ACCESSORIES (CONTINUED)

Anti-Theft Compound



A highly conductive compound, nasty to touch, and very difficult to clean off your clothing. To be used on master ground bars, copper conductors, or any copper that is exposed to theft.

Ordering information:

- EM-5101** *Anti-theft compound, 1 quart*
- EM-5102** *Anti-theft compound, 1 gallon*

Miscellaneous

DRY BOX SPLICE CONNECTOR HOUSING

Description

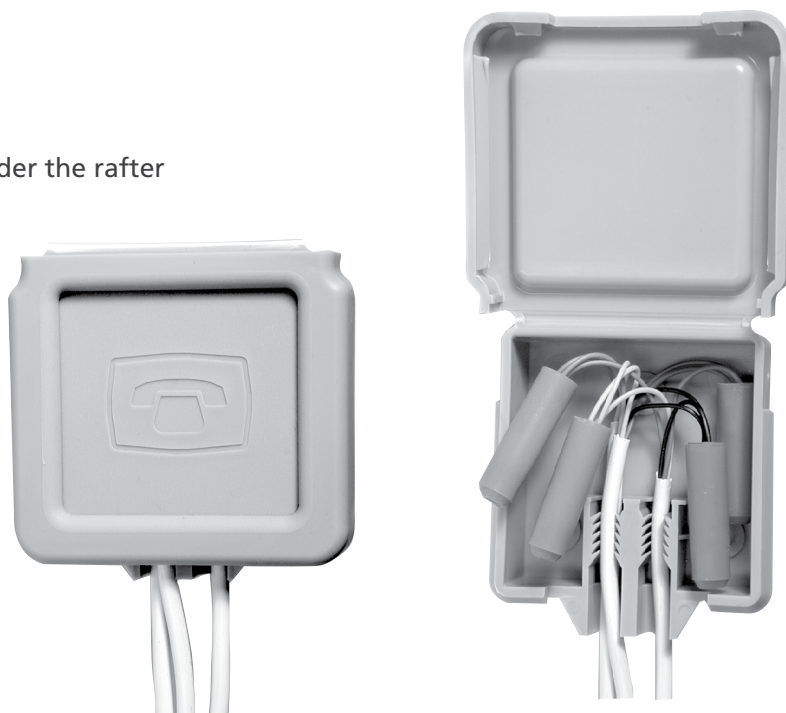
An impact-resistant plastic housing for containing service wire splice connectors.

Features/ Applications

- Lightweight
- Inexpensive
- Mounts easily to the side of a house, under the rafter eaves, in the basement

Ordering information ()

EM-9215 – Gray plastic dry box
Standard packaging: 50/bx, 5 lb/bx.



Miscellaneous

LO-OHM GROUNDING CEMENT

Lo-Ohm Grounding Cement is a fine powder packaged in 55-lb. bags which provides an environmentally safe, long-term solution to many grounding problems. Lo-Ohm Grounding Cement grounding electrodes are easily installed by spreading the dry powder in a strip over and around a conductor in a horizontal trench. When the trench is refilled, Lo-Ohm Grounding Cement absorbs moisture from the surrounding soil and hardens to become part of the grounding electrode. The surface area of the electrode is thus dramatically increased, and resistance to ground is substantially reduced. In addition, surge impedance is also lowered significantly.



Lo-Ohm Grounding Cement was developed in the 1970s to aid in the grounding of electric power transmission lines in mountainous areas where construction is difficult and soil resistivities tend to be high. Since then, it has proven effective in a wide variety of other applications, including power

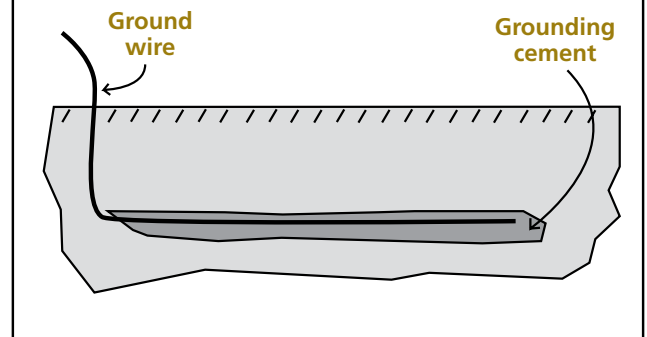
station grids, telecommunication switches, radio transmission towers, and cathodic protection systems. The consistent performance of Lo-Ohm Grounding Cement grounding systems has been confirmed through long-term monitoring of installed electrodes. Independent testing has shown that Lo-Ohm Grounding Cement is environmentally safe, and has proven that Lo-Ohm Grounding Cement-covered copper electrodes last ten times longer than bare copper ground wires.

Features

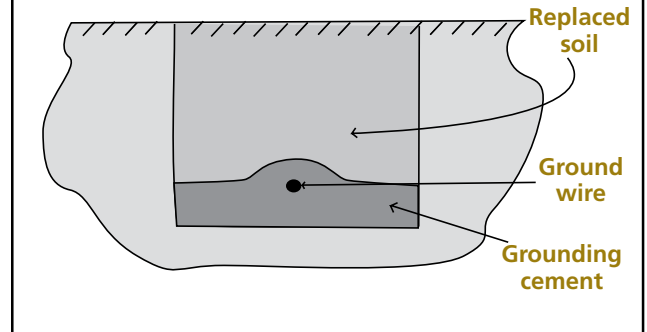
- Reduces resistance to ground
- Lowers surge impedance significantly
- Environmentally safe
- Provides ideal contact with the surrounding soil
- Reduces corrosion in grounding conductors
- Cost-efficient and maintenance-free

For Electric Motion Company (EMC) part numbers starting with "EM" please contact EMC customer service at 860-379-8515 or cs110@hubbell.com

Cutaway



Cross section



Applications

- Electric transmission and distribution towers
- Power plant grounding grids
- Substation ground systems
- Cathodic protective systems
- Central office switches
- Cellular systems
- Remote digital switches
- Radio transmission towers
- Central office DC power



Ordering information

EM-M5C – Standard packaging: 55 lb. bag.

Miscellaneous

SHIELD CONNECTOR FOR CAT 5 CABLES

The EM-9556BW S(.218) C(.31) is a small cable shield connector that can be installed on a small cable that is already placed.

The take-apart design fits around cables proximately .3–.45 diameter, but each diameter or style of cable should be submitted to the factory. After basic installation (1), insulation displacement screws are run down (2) to contact the shield with no loss or attenuation.

Connector can be used for both bonding and grounding or locating. No need to open sheath and shield. Comes as a standard with 36"-long #10 AWG green lead.

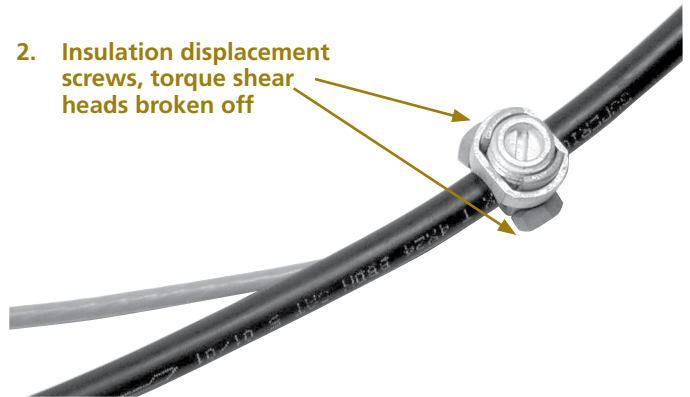
Ordering information

EM-9556-BW S(.218) C(.31) – Small cable shield connector

1. Basic installation



2. Insulation displacement screws, torque shear heads broken off



Insulation displacement screws

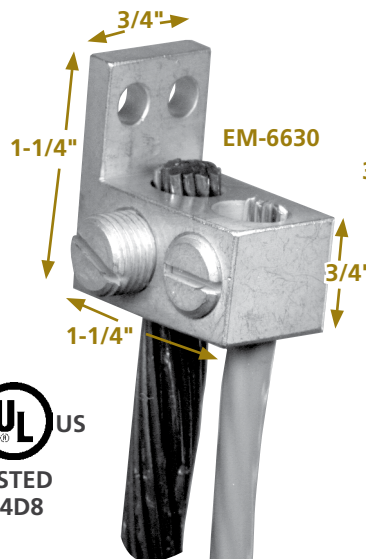
DOUBLE-HOLE GROUND LUGS

Accommodate #6–#2 AWG ground wires, solid or stranded.

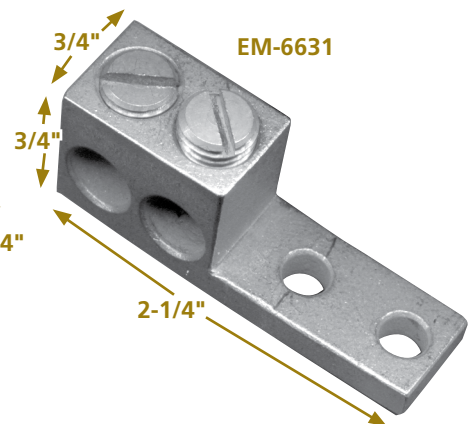
Ordering information

EM-6630 Double-Hole Ground Lug

EM-6631 Double-Hole Ground Bar Lug with parallel mounting tang



EM-6630



EM-6631



Miscellaneous

CORROSION-RESISTANT HARDWARE

EMC hardware is available for use in new construction, maintenance, and retrofitting in OSP and central office. It is available in copper alloy (brass or bronze), stainless steel, or galvanized steel.



Hex Head Screws – Coarse Thread

Length Diameter-Thread	1/2	3/4	1	1-1/4	1-1/2	1-3/4	2
10 - 24	EM-10C12B	EM-10C34B	EM-10C1B	EM-10C114B	EM-10C112B	EM-10C134B	EM-10C2B
1/4 - 20	EM-14C12B	EM-14C34B	EM-14C1B	EM-14C114B	EM-14C112B	EM-14C134B	EM-14C2B
5/16 - 18	EM-516C12B	EM-516C34B	EM-516C1B	EM-516C114B	EM-516C112B	EM-516C134B	EM-516C2B
3/8 - 16	EM-38C12B	EM-38C34B	EM-38C1B	EM-38C114B	EM-38C112B	EM-38C134B	EM-38C2B
1/2 - 13	EM-12C12B	EM-12C34B	EM-12C1B	EM-12C114B	EM-12C112B	EM-12C134B	EM-12C2B



Hex Head Screws – Fine Thread

Length Diameter-Thread	1/2	3/4	1	1-1/4	1-1/2	1-3/4	2
10 - 32	EM-10F12B	EM-10F34B	EM-10F1B	EM-10F114B	EM-10F112B	EM-10F134B	EM-10F2B
1/4 - 28	EM-14F12B	EM-14F34B	EM-14F1B	EM-14F114B	EM-14F112B	EM-14F134B	EM-14F2B
5/16 - 24	EM-516F12B	EM-516F34B	EM-516F1B	EM-516F114B	EM-516F112B	EM-516F134B	EM-516F2B
3/8 - 24	EM-38F12B	EM-38F34B	EM-38F1B	EM-38F114B	EM-38F112B	EM-38F134B	EM-38F2B
1/2 - 20	EM-12F12B	EM-12F34B	EM-12F1B	EM-12F114B	EM-12F112B	EM-12F134B	EM-12F2B

Ordering information

To order, find the part number of the hardware you need in the above charts, and add a material suffix as follows:

SB = silicon bronze or brass

SS = stainless steel

GS = galvanized steel

Miscellaneous

CORROSION-RESISTANT HARDWARE (CONTINUED)



Nuts – Coarse Thread	
Length Diameter-Thread	P/N
10 - 24	EM-10CN
1/4 - 20	EM-14CN
5/16 - 18	EM-516CN
3/8 - 16	EM-38CN
1/2 - 13	EM-12CN



Nuts – Fine Thread	
Length Diameter-Thread	P/N
10 - 32	EM-10FN
1/4 - 28	EM-14FN
5/16 - 24	EM-516FN
3/8 - 24	EM-38FN
1/2 - 20	EM-12FN



Lock Washers	
Diameter	P/N
10	EM-10L
1/4	EM-14L
5/16	EM-516L
3/8	EM-38L
1/2	EM-12L



Flat Washers	
Diameter	P/N
10	EM-10F
1/4	EM-14F
5/16	EM-516F
3/8	EM-38F
1/2	EM-12F

Ordering information

To order, find the part number of the hardware you need in the above charts, and add a material suffix as follows:

SB = silicon bronze or brass

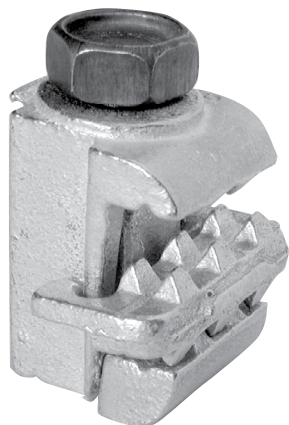
SS = stainless steel

GS = galvanized steel

All the hardware on these two pages is also available packaged as kits: screw, nut, and washer. Please call 860-379-8515 or e-mail customerservice@electricmotioncompany.com for details.

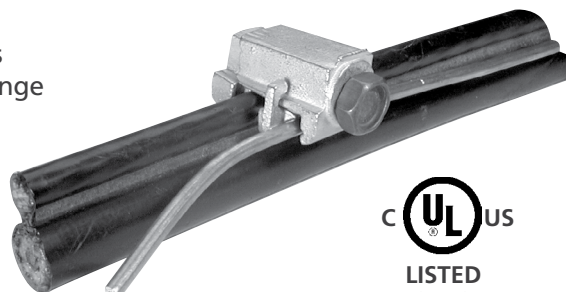
Pole Line Hardware

C CONNECTOR

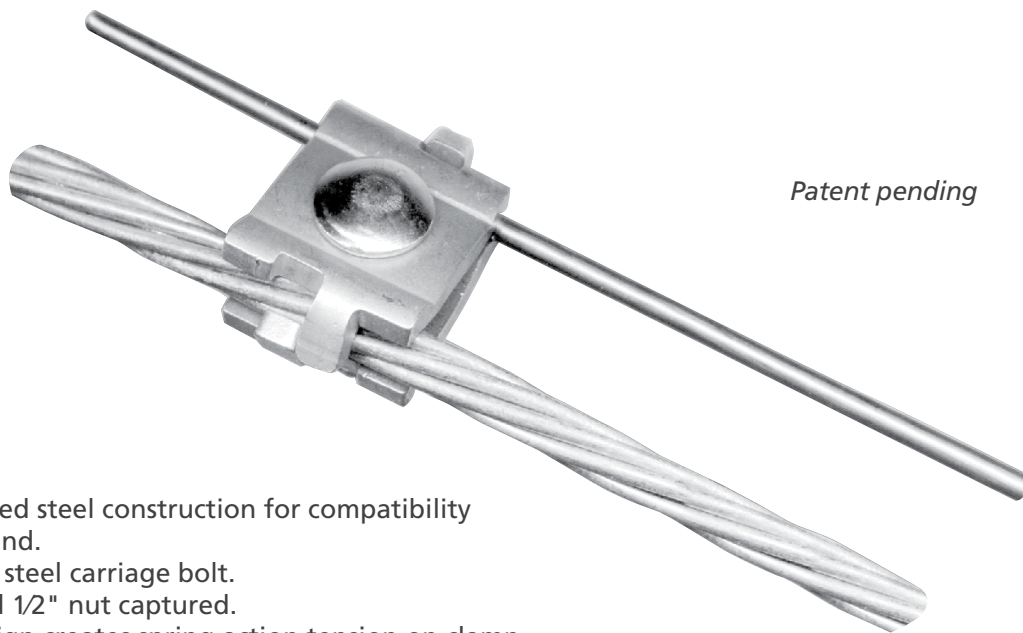


Tin-plated bronze connector with teeth for piercing the messenger insulation of Figure 8 cable. For messenger diameters of .146"–.312" and ground conductor range of .146"–.312".

Ordering information
EM-0167
Standard packaging: 100/lbx, 23 lb/lbx.



STRAND BOND CLAMP



Patent pending

Features

- Galvanized steel construction for compatibility with strand.
- Stainless steel carriage bolt.
- Standard 1/2" nut captured.
- Bow design creates spring action tension on clamp.
- Single clamping action connects strand/ground wire.
- Wraparound design grips strand more securely

Applications

- Connecting #6 AWG solid to #6 AWG solid ground wire
- Connecting strand to strand (1/4" [6.6M]–7/16" [16M])
- Connecting #6 AWG to strand

Ordering information

EM-4811
Standard packaging: 10/bg, 100/bx, 21 lb/bx.

EM-4811SS

Strand bond clamp, all stainless steel body and hardware

BONDING &
GROUNDING

Pole Line Hardware

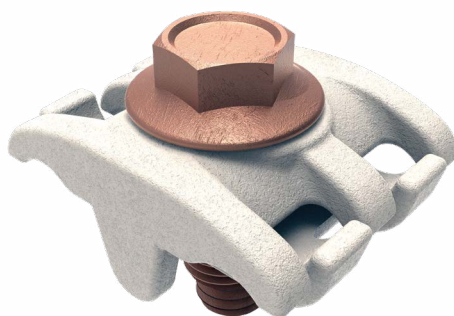
KUL BONDING CLAMP

Description

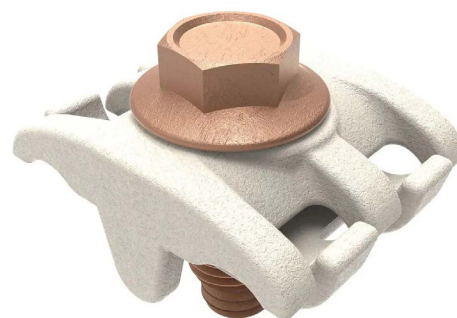
Used to Bond 1/4" to 7/16" Strand to #8 to 2/0 Copper Wire.

Features/ Applications

- Tin plated for corrosion protection
- High strength copper alloy
- Half-inch hex head silicon bronze bolt
- 1/4" - 7/16" strand
- #8 - #2/0 copper wire



EM-KUL14716



EM-KUL14716BG

JUMPER CLAMP

A tin-plated bronze clamp with interlocking jaws.

Features

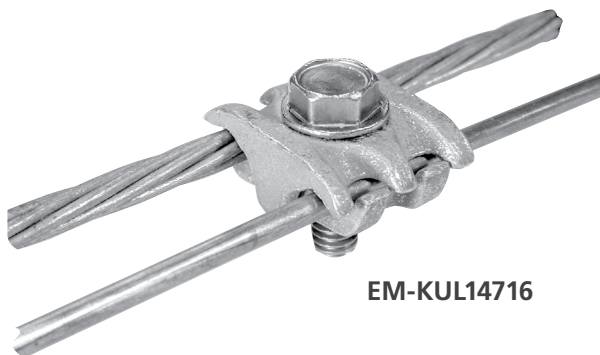
- Tin plated for corrosion protection
- High strength copper alloy
- UL listed for public safety
- Half-inch hex head silicon bronze bolt

Applications

- 1/4"-7/16" strand
- #8-#2/0 copper wire



EM-KUL14716



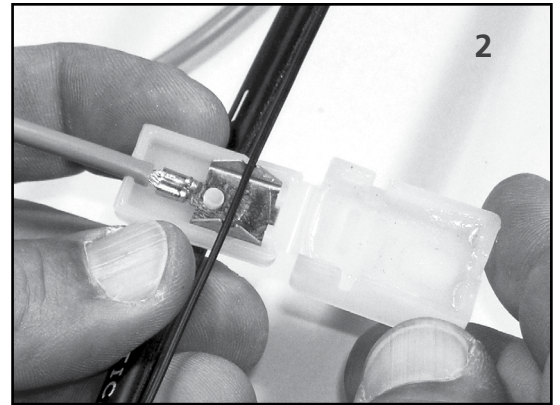
EM-KUL14716BG

Fiber to the Premise – FTTP

FIBER-TO-THE-HOME DROP LOCATE WIRE GROUND HARNESS

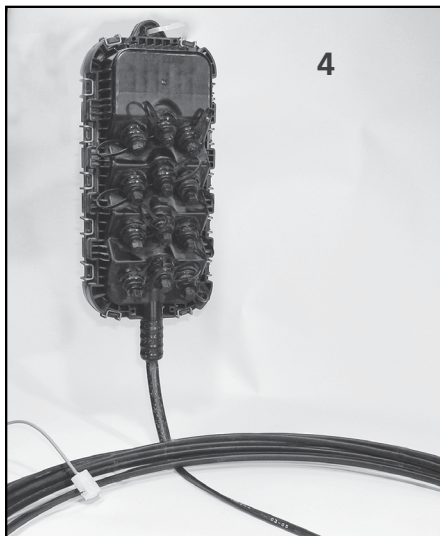
Description

A gel-filled insulation-displacement connector to ground #24 AWG locate wires in the handhole or the pedestal, or at the residence.



Handhole Installation

1. Carefully make an 8" slit in the web of the fiber drop, generally in the first slack coil in the bottom of the handhole.
2. Remove the release paper from the gel on connector EM-9181. Slide the connector into the slit area under the locate wire.
3. Position the locate wire at the entrance to the brass IDC terminal, then close the cover.
4. Attach the green ground wire to one of the studs on the grounding location.



Benefits

- Allows locate wire to be grounded in the handhole and not bring lightning into the ONT or ONU.
- No stripping of locate wire
- Flexible lead allows "float"
- Waterproof for underground
- Low-cost
- Allows extending a broken locate wire

Ordering information :

EM-9181-XX-X – Toneable Fiber Flat Drop Cable Connector with attached grounding harness. Specify length of #14 AWG green harness (XX), and either .10 or .25 diameter mounting hole on ring terminal on free end (X). Connects to #24 AWG without stripping.

