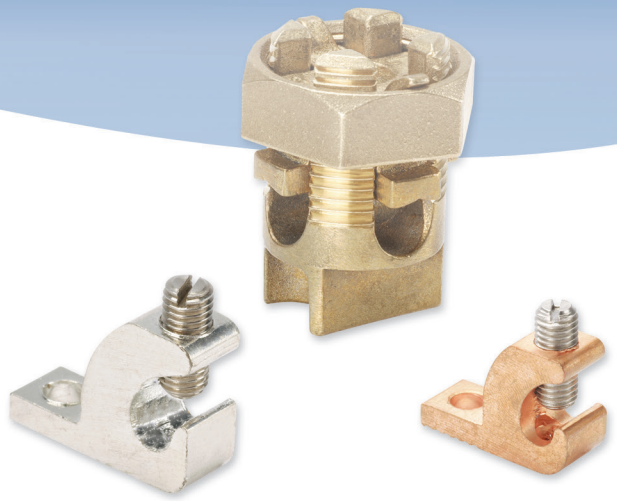
PANDUIT® building a smarter, unified business foundation
Connect. Manage. Automate.

Product Bulletin

StructuredGround™ Mechanical Connectors



The ability to provide a grounding system that is both reliable and economical is dependent upon finding the right connectors for the application. Panduit offers grounding connectors for a wide variety of conductor combinations and mounting configurations in high strength electrolytic copper, aluminum and bronze alloy materials.

Globally distributed StructuredGround™ Mechanical Connectors provide fast and easy terminating of ground conductors to water pipe, ground rods, conduit, iron pipe, and structural steel for highest reliability and lowest installed cost. With the addition of new ground clamps to the existing line of StructuredGround™ Mechanical Connectors, Panduit delivers the breadth of line to supply the right connector for each unique job, providing maximum reliability and safety for all critical electrical connections throughout your physical infrastructure.

c UL us LISTED · UL LISTED · SP CERTIFIED · DB RATED · RoHS

Key Features	Benefits
UL/cULus Listed and CSA Certified	Satisfies grounding specification requirements for safety and reliability
Made from high strength electrolytic copper, aluminum or bronze, and available with tin-plating	Creates optimum conductivity resulting in reliable, high quality connections
Broad selection of grounding connectors	Allows consolidation to one supplier, lowering procurement costs
Local product support available on a global basis	Provides worldwide product availability and expertise for consistent, rapid deployment
Wire range-taking capability	Minimizes inventory requirements, saves cost
Installed with standard screwdrivers and hex wrenches	Saves cost on special tooling

Applications

Oil and Gas

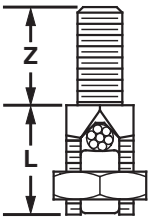
Industrial Facilities

Solar Power

Construction

Bronze Service Post Connector, Male Stud, Single Conductor

- For grounding one copper code conductor to steel structures, busbars, or transformers or for tapping from busbar with hex nut and washer
- Made from high copper content, hard drawn copper rod provides high strength
- Offered with standard and long stud lengths to accommodate a variety of mounting applications
- True hex design for body and nut hex provides correct fit with socket, box, or open end wrenches resulting in proper torquing of electrical connection
- Pressure bar provides secure connection on a full range of conductor combinations used with each connector providing premium wire pull-out strength
- Wire range-taking capability minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete

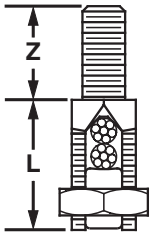


Part Number	Conductor Size Range (AWG)	Stud Size*	Figure Dimensions (In.)		Nut Hex (In.)	Body Hex (In.)	Std. Pkg. Qty.
			L	Z			
SP1-8-C	#12 SOL – #8 STR	1/4 – 20	0.63	0.50	0.50	0.38	100
SP1-8L-C			0.63	1.00			
SP1-7-C	#8 SOL – #7 STR	1/4 – 20	0.88	0.50	0.69	0.50	100
SP1-7L-C			0.88	1.00			
SP1-4-C	#10 SOL – #4 STR	5/16 – 18	0.94	0.56	0.75	0.56	100
SP1-4L-C			0.94	1.00			
SP1-3-C	#6 SOL – #3 STR	3/8 – 16	1.06	0.63	0.81	0.63	100
SP1-3L-C			1.06	1.13			
SP1-2-C	#4 STR – #2 STR	3/8 – 16	1.06	0.63	0.88	0.69	100
SP1-2L-C			1.06	1.13			
SP1-1/0-L	#6 SOL – 1/0 STR	1/2 – 13	1.31	0.75	1.00	0.75	50
SP1-1/0L-L			1.31	1.25			
SP1-2/0-Q	#1 SOL – 2/0 STR	1/2 – 13	1.44	0.75	1.13	0.88	25
SP1-2/0L-Q			1.44	1.25			
SP1-4/0-Q	3/0 SOL – 4/0 STR	5/8 – 11	1.69	1.00	1.38	1.13	25
SP1-4/0L-Q			1.69	1.50			
SP1-350-12	4/0 STR – 350 kcmil	5/8 – 11	2.00	1.00	1.50	1.25	12
SP1-350L-12			2.00	1.50			
SP1-500-12	250 kcmil – 500 kcmil	3/4 – 10	2.31	1.38	1.81	1.50	12
SP1-500L-12			2.31	1.75			

*UNC threads.

Bronze Service Post Connector, Male Stud, Two Conductor

- For grounding two copper code conductors to steel structures, busbars, or transformers or for tapping from busbar with hex nut and washer
- Made from high copper content, hard drawn copper rod provides high strength
- Offered with standard and long stud lengths to accommodate a variety of mounting applications
- True hex design for body and nut hex provides correct fit with socket, box, or open end wrenches resulting in proper torquing of electrical connection
- Pressure bar provides secure connection on a full range of conductor combinations used with each connector providing premium wire pull-out strength
- Wire range-taking capability minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete

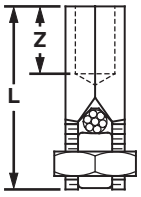


Part Number	Conductor Size Range (AWG)	Stud Size*	Figure Dimensions (In.)		Nut Hex (In.)	Body Hex (In.)	Std. Pkg. Qty.
			L	Z			
SP2-8-C	#12 SOL – #8 STR	1/4 – 20	0.75	0.50	0.50	0.38	100
SP2-8L-C			0.75	1.00			
SP2-7-C	#10 SOL – #7 STR	1/4 – 20	1.00	0.50	0.69	0.50	100
SP2-7L-C			1.00	1.00			
SP2-4-C	#10 SOL – #4 STR	5/16 – 18	1.16	0.56	0.75	0.56	100
SP2-4L-C			1.16	1.00			
SP2-3-C	#10 SOL – #3 STR	3/8 – 16	1.09	0.63	0.81	0.63	100
SP2-3L-C			1.09	1.13			
SP2-2-C	#10 SOL – #2 STR	3/8 – 16	1.38	0.63	0.88	0.69	100
SP2-2L-C			1.28	1.13			
SP2-1/0-L	#2 SOL – 1/0 STR	1/2 – 13	1.69	0.75	1.00	0.75	50
SP2-1/0L-L			1.69	1.25			
SP2-2/0-Q	#2 SOL – 2/0 STR	1/2 – 13	1.88	0.75	1.13	0.88	25
SP2-2/0L-Q			1.88	1.25			
SP2-4/0-Q	#1 SOL – 4/0 STR	5/8 – 11	2.25	1.00	1.38	1.13	25
SP2-4/0L-Q			2.25	1.50			
SP2-350-12	#1 STR – 350 kcmil	5/8 – 11	2.69	1.00	1.50	1.25	12
SP2-350L-12			2.69	1.50			
SP2-500-12	3/0 STR – 500 kcmil	3/4 – 10	3.19	1.38	1.81	1.50	12
SP2-500L-12			3.19	1.75			

*UNC threads.

Bronze, Service Post Connector, Female Thread, Single Conductor

- For grounding one copper code conductor to steel structures, busbars, or transformers or for tapping from busbar using external studs, screws, or bolts
- Made from high copper content, hard drawn copper rod provides high strength
- True hex design for body and nut hex provides correct fit with socket, box, or open end wrenches resulting in proper torquing of electrical connection
- Pressure bar provides secure connection on a full range of conductor combinations used with each connector providing premium wire pull-out strength
- Wire range-taking capability minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete

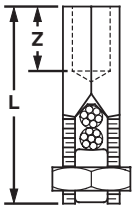


Part Number	Conductor Size Range (AWG)	Thread Size*	Figure Dimensions (In.)		Nut Hex (In.)	Body Hex (In.)	Std. Pkg. Qty.
			L	Z			
SPF1-8-C	#12 SOL – #8 STR	1/4 – 20	0.91	0.25	0.50	0.38	100
SPF1-7-C	#10 SOL – #7 STR	1/4 – 20	1.13	0.25	0.69	0.50	100
SPF1-4-C	#8 SOL – #4 STR	5/16 – 18	1.44	0.31	0.75	0.56	100
SPF1-3-C	#6 STR – #3 STR	3/8 – 16	1.50	0.38	0.81	0.63	100
SPF1-2-C	#6 STR – #2 STR	3/8 – 16	1.63	0.38	0.88	0.69	100
SPF1-1/0-L	#2 SOL – 1/0 STR	1/2 – 13	1.88	0.44	1.00	0.75	50
SPF1-2/0-Q	#1 SOL – 2/0 STR	1/2 – 13	2.06	0.50	1.13	0.88	25
SPF1-4/0-Q	1/0 STR – 4/0 STR	5/8 – 11	2.38	0.63	1.38	1.13	25
SPF1-350-12	4/0 STR – 350 kcmil	5/8 – 11	2.63	0.63	1.50	1.25	12
SPF1-500-12	300 kcmil – 500 kcmil	3/4 – 10	3.13	0.75	1.81	1.50	12

*UNC threads.

Bronze, Service Post Connector, Female Thread, Two Conductor

- For grounding two copper code conductors to steel structures, busbars, or transformers or for tapping from busbar using external threaded studs, screws, or bolts
- Made from high copper content, hard drawn copper rod provides high strength
- True hex design for body and nut hex provides correct fit with socket, box, or open end wrenches resulting in proper torquing of electrical connection
- Pressure bar provides secure connection on a full range of conductor combinations used with each connector providing premium wire pull-out strength
- Wire range-taking capability minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete

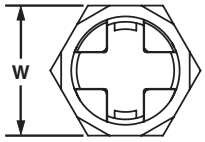


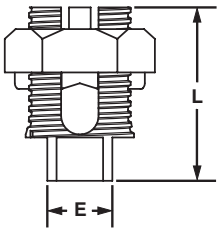
Part Number	Conductor Size Range (AWG)	Thread Size*	Figure Dimensions (In.)		Nut Hex (In.)	Body Hex (In.)	Std. Pkg. Qty.
			L	Z			
SPF2-8-C	#12 SOL – #8 STR	1/4 – 20	1.13	0.25	0.50	0.38	100
SPF2-7-C	#10 SOL – #7 STR	1/4 – 20	1.44	0.25	0.69	0.50	100
SPF2-4-C	#10 SOL – #4 STR	5/16 – 18	1.56	0.31	0.75	0.56	100
SPF2-3-C	#10 SOL – #3 STR	3/8 – 16	1.63	0.38	0.81	0.63	100
SPF2-2-C	#10 SOL – #2 STR	3/8 – 16	1.94	0.38	0.88	0.69	100
SPF2-1/0-L	#2 SOL – 1/0 STR	1/2 – 13	2.13	0.44	1.00	0.75	50
SPF2-2/0-Q	#2 SOL – 2/0 STR	1/2 – 13	2.31	0.50	1.13	0.88	25
SPF2-4/0-Q	#1 SOL – 4/0 STR	5/8 – 11	2.50	0.63	1.38	1.13	25
SPF2-350-12	#1 STR – 350 kcmil	5/8 – 11	2.69	0.63	1.50	1.25	12
SPF2-500-12	3/0 STR – 500 kcmil	3/4 – 10	3.31	0.75	1.81	1.50	12

*UNC threads.

Bronze Split Bolt Quad Clamp

- Split bolt design allows easy insertion of perpendicular conductors to speed installation
- UL 467 Listed and CSA Certified for direct burial in earth or concrete
- UL Listed and CSA Certified for use up to 600 V and temperature rated 90°C
- Each clamp accepts up to two conductors for a high performance bond with faster installation
- Wire range-taking capability minimizes inventory requirements, saves cost
- Made from high strength, electrolytic bronze to provide reliable grounding connections

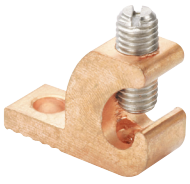




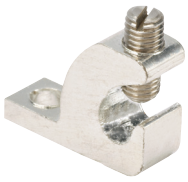
Part Number	Conductor Size Range (AWG)	Figure Dimensions (In.)			Tightening Torque (In. – Lbs.)	Std. Pkg. Qty.
		E	W	L		
SBQC1/0-X	#6 SOL – 1/0 STR	0.75	1.50	2.00	#6 – #4 AWG – 165 #3 – #1 AWG – 275 1/0 AWG – 385	10

Copper and Aluminum One-Hole Grounding Lay-in Lug

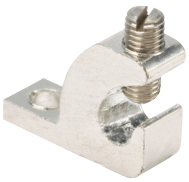
- Used for quick installation of a continuous grounding conductor
- UL 467 Listed for grounding and bonding, copper lugs UL Listed for direct burial in earth or concrete
- cULus Listed for use up to 600 V and temperature rated 90°C
- Wire range-taking capability minimizes inventory requirements, saves cost



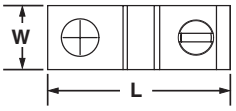
Copper

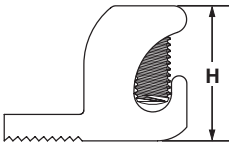


Tin-Plated Copper



Aluminum



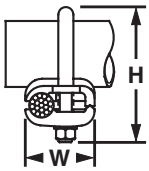


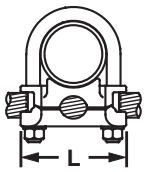
Part Number	Set Screw Material	Conductor Size Range (AWG)	Stud Hole Size (In.)	Hex Key Size (In.)	Figure Dimensions (In.)			Std. Pkg. Qty.
					L	W	H	
Copper Body								
LICC4-22-C	Stainless Steel	#14 SOL – #4 STR	0.22	**	1.16	0.39	0.87	100
Tin-Plated Copper body								
LICC4-22TP-C	Stainless Steel	#14 SOL – #4 STR	0.22	**	1.16	0.39	0.87	100
Tin-Plated Aluminum Body								
LIAC4-22-C	Stainless Steel	#14 SOL – #4 STR	0.22	**	1.06	0.39	0.78	100
LIAS1/0-14-L	Zinc Plated Steel	#14 SOL – 1/0 STR	0.27	**	1.50	0.61	1.10	50
LIAS250-56-Q	Zinc Plated Steel	#6 SOL – 250 STR	0.33	1/4	2.20	0.80	1.70	25

**Uses slotted head set screw.
The use of Panduit oxide inhibiting joint compound (CMP) is recommended for pad and conductor connections.

Bronze Grounding Clamp, U-Bolt

- Used to ground copper conductor parallel or at a right angle to a rod, tube, or pipe
- Made from high strength, electrolytic cast bronze
- High strength silicon bronze hardware provides long term reliable assembly
- Accommodates a wide range of pipe, tube, rod and conductor sizes – minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete

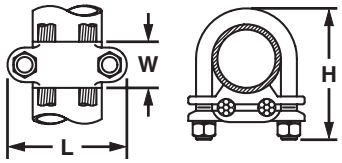




Part Number	Conductor Size Range (AWG)	Ground Rod Size (In)	Iron Pipe Size (In)	Figure Dimensions (In.)			Bolt Dia. (In.)	Hex Size (In.)	Std. Pkg. Qty.
				L	W	H			
GPL-4-Q	#8 SOL – #4 STR	5/8 or 3/4	3/8	2.00	1.38	2.75	3/8	9/16	25
GPL-5-Q	#4 SOL – 2/0 STR	5/8 or 3/4	3/8	2.00	1.63	2.75	3/8	9/16	25
GPL-6-Q	2/0 SOL – 250 kcmil	5/8 or 3/4	3/8	2.00	1.88	2.75	3/8	9/16	25
GPL-8-Q	#8 SOL – #4 STR	7/8 or 1	1/2 or 3/4	2.38	1.38	2.63	3/8	9/16	25
GPL-9-Q	#4 SOL – 2/0 STR	7/8 or 1	1/2 or 3/4	2.38	1.63	2.63	3/8	9/16	25
GPL-10-Q	2/0 SOL – 250 kcmil	7/8 or 1	1/2 or 3/4	2.38	1.88	3.00	3/8	9/16	25
GPL-14-X	#8 SOL – #4 STR	—	1	2.63	1.38	2.75	3/8	9/16	10
GPL-15-X	#4 SOL – 2/0 STR	—	1	2.63	1.63	2.75	3/8	9/16	10
GPL-16-X	2/0 SOL – 250 kcmil	—	1	2.63	1.88	3.25	3/8	9/16	10
GPL-20-X	#8 SOL – #4 STR	—	1 1/4	3.00	1.38	3.50	3/8	9/16	10
GPL-21-X	#4 SOL – 2/0 STR	—	1 1/4	3.00	1.63	3.50	3/8	9/16	10
GPL-22-X	2/0 SOL – 250 kcmil	—	1 1/4	3.00	1.88	3.50	3/8	9/16	10
GPL-26-X	#8 SOL – #4 STR	—	1 1/2	3.25	1.38	4.00	3/8	9/16	10
GPL-27-X	#4 SOL – 2/0 STR	—	1 1/2	3.25	1.63	4.00	3/8	9/16	10
GPL-28-X	2/0 SOL – 250 kcmil	—	1 1/2	3.25	1.88	4.00	3/8	9/16	10
GPL-32-3	#8 SOL – #4 STR	—	2	3.75	1.38	4.25	3/8	9/16	3
GPL-33-3	#4 SOL – 2/0 STR	—	2	3.75	1.63	4.25	3/8	9/16	3
GPL-34-3	2/0 SOL – 250 kcmil	—	2	3.75	1.88	4.25	3/8	9/16	3
GPL-39-3	#4 SOL – 2/0 STR	—	2 1/2	4.25	1.63	5.00	3/8	9/16	3
GPL-40-3	2/0 SOL – 250 kcmil	—	2 1/2	4.25	1.88	5.00	3/8	9/16	3
GPL-44-1	#8 SOL – #4 STR	—	3	4.75	1.38	5.50	3/8	9/16	1
GPL-45-1	#4 SOL – 2/0 STR	—	3	4.75	1.63	5.50	3/8	9/16	1
GPL-46-1	2/0 SOL – 250 kcmil	—	3	4.75	1.88	5.50	3/8	9/16	1
GPL-51-1	#4 SOL – 2/0 STR	—	3 1/2	5.25	1.63	6.25	3/8	9/16	1
GPL-52-1	2/0 SOL – 250 kcmil	—	3 1/2	5.25	1.88	6.25	3/8	9/16	1
GPL-57-1	#4 SOL – 2/0 STR	—	4	5.75	1.63	6.38	3/8	9/16	1
GPL-58-1	2/0 SOL – 250 kcmil	—	4	5.75	1.88	6.38	3/8	9/16	1
GPL-75-X	#4 SOL – 2/0 STR	—	6	7.88	1.58	7.85	3/8	1 1/4	10
GPL-76-1	2/0 SOL – 250 kcmil	—	6	7.94	1.00	6.81	3/8	9/16	1

Bronze Grounding Clamp, U-Bolt, for Two Cables

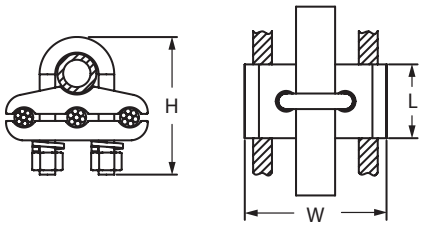
- Used to ground two copper code conductors parallel to a rod, tube, or pipe
- Made from high strength, electrolytic cast bronze
- High strength silicon bronze hardware provides long term reliable assembly
- Accommodates a wide range of pipe, tube, rod and conductor sizes – minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete



Part Number	Conductor Size Range (AWG)	Iron Pipe Size (In.)	Figure Dimensions (In.)			Bolt Dia (In.)	Hex Size (In.)	Std. Pkg. Qty.
			L	W	H			
GU-2-X	#4 SOL – 2/0 STR	1	2.75	1.13	3.25	3/8	9/16	10
GU-4-X	#8 SOL – #4 STR	1 1/4	3.00	1.13	3.25	3/8	9/16	10
GU-11-X	#4 SOL – 2/0 STR	2	1.31	3.62	4.44	3/8	9/16	10
GU-13-3	300 kcmil – 500 kcmil	2	4.00	1.50	4.63	1/2	3/4	3

Bronze Grounding Clamp, U-Bolt, for Three Cables

- Used to ground three equal size parallel copper conductors parallel to rod, tube, or pipe
- Made from high strength, electrolytic cast bronze
- High strength silicon bronze hardware provides long term reliable assembly
- Accommodates a wide range of pipe, tube, rod, and conductor sizes – minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete

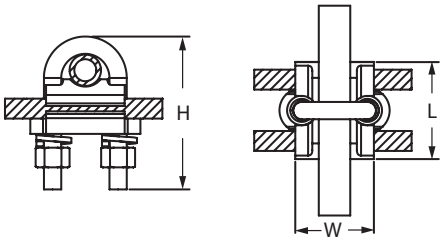


Part Number	Conductor Size Range (AWG)	Ground Rod Size (In.)	Iron Pipe Size (In.)	Figure Dimensions (In.)			Bolt Dia (In.)	Hex Size (In.)	Std. Pkg. Qty.
				L	W	H			
GPC3250-38-X	2/0 SOL-250 kcmil*	5/8 or 3/4	3/8	3.00	1.56	2.81	3/8	9/16	10

*UL Listing is limited to a maximum wire size of 250 by UL 467.

Bronze Grounding Clamp, U-Bolt, for Two Parallel Conductors

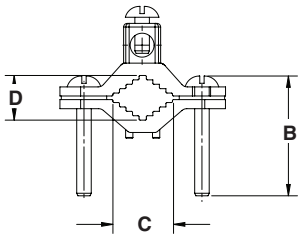
- Used to ground two equal size parallel copper conductors perpendicular to rod, tube, or pipe
- Made from high strength, electrolytic cast bronze
- High strength silicon bronze hardware provides long term reliable assembly
- Accommodates a wide range of pipe, tube, rod, and conductor sizes – minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete

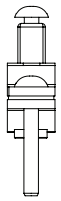


Part Number	Conductor Size Range (AWG)	Ground Rod Size (In.)	Iron Pipe Size (In.)	Figure Dimensions (In.)			Bolt Dia (In.)	Hex Size (In.)	Std. Pkg. Qty.
				L	W	H			
GPC22/0-38-X	2/0 SOL – 250 kcmil	5/8 or 3/4	3/8	1.62	1.38	2.8	3/8	9/16	10
GPC2250-38-X	#4 SOL – 2/0 STR	5/8 or 3/4	3/8	1.85	1.50	2.8	3/8	9/16	10

Bronze Ground Clamp

- Bonds water pipe to copper conductors
- Made from high strength, electrolytic cast bronze
- Zinc plated steel hardware
- Wire range-taking capability minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding





Part Number	Conductor Size Range (AWG)	Iron Pipe Size (In.)	Figure Dimensions (In.)			Std. Pkg. Qty.
			B	C	D	
Standard Duty						
GPC2-1-Q	#10 SOL – #2 STR	1/2 – 1	1.65	0.78	0.63	25
GPC2-2-L	#10 SOL – #2 STR	1 1/4 – 2	2.22	2.09	1.44	50
GPC2-4-X	#10 SOL – #2 STR	2 1/2 – 4	4.25	4.15	2.73	10
GPC2-6-X	#10 SOL – #2 STR	4 1/2 – 6	5.20	6.00	2.85	10
Light Duty						
GPCJ2-1-C	#10 SOL – #2 STR	1/2 – 1	1.65	0.90	0.51	100

Bronze Ground Hubs

- Combine with bronze ground clamps to bond water pipes to rigid conduit and to copper conductors in EMT and rigid conduit
- When used with bronze ground clamps, installation flexibility is increased and inventory costs are decreased compared to stocking complete clamp assemblies
- Made from high strength, electrolytic cast bronze
- Zinc plated steel hardware
- Wire range-taking capability minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding

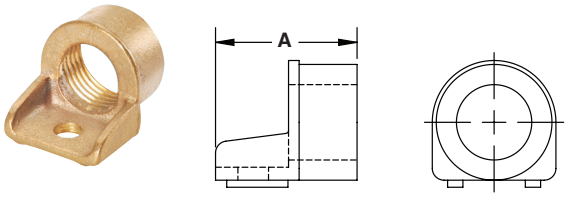


Figure 1

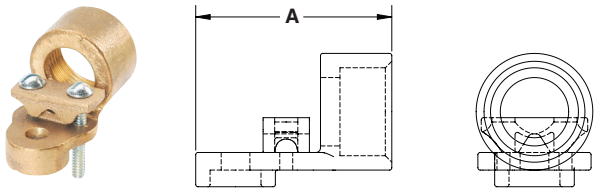
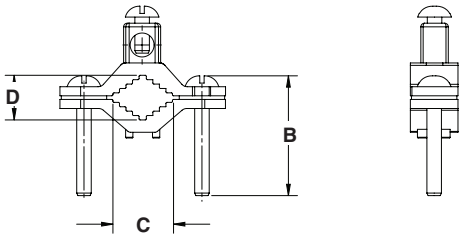


Figure 2

Part Number	Figure No.	Conductor Size Range (AWG)	Conduit Hub Size (In.)	Figure Dimensions (In.)	Std. Pkg. Qty.
				A	
GHC4-12-T	1	#8 SOL – #4 STR	1/2	1.27	200
GHC4-34-C	1	#8 SOL – #4 STR	3/4	1.51	100
GHC4-1-C	1	#8 SOL – #4 STR	1	1.61	100
GHC2/0-12-C	2	#10 SOL – 2/0 STR	1/2	1.98	100
GHC2/0-34-L	2	#10 SOL – 2/0 STR	3/4	2.14	50
GHC3/0-1-L	2	#10 SOL – 3/0 STR	1	2.16	50

Bronze Ground Clamp, Direct Burial

- Bonds water pipe to copper conductors
- Made from high strength, electrolytic cast bronze
- High strength phos bronze hardware provides long term reliable assembly
- Wire range-taking capability minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete

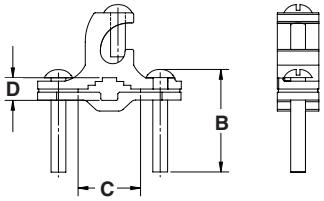


Part Number	Conductor Size Range (AWG)	Iron Pipe Size (In.)	Figure Dimensions (In.)			Std. Pkg. Qty.
			B	C	D	
GPC2-1D-C	#10 SOL – #2 STR	1/2 – 1	1.65	0.78	0.63	100
GPC2-2D-L	#10 SOL – #2 STR	1 1/4 – 2	2.22	2.09	1.44	50
GPC2-4D-E	#10 SOL – #2 STR	2 1/2 – 4	4.25	4.15	2.73	20

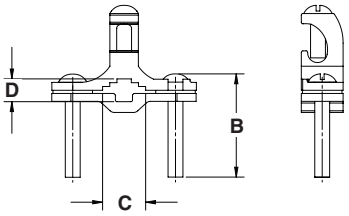
Bronze Ground Clamp with Lay-in Feature, Direct Burial

- Bonds water pipe to copper conductors
- Used for quick installation of a continuous grounding conductor
- Made from high strength, electrolytic cast bronze
- High strength phos bronze hardware provides long term reliable assembly
- Wire range-taking capability minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete

GPLAC2-1-C



GPLBC2-1-C

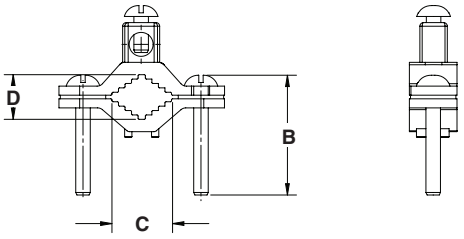


Part Number	Conductor Size Range (AWG)	Iron Pipe Size (In.)	Figure Dimensions (In.)			Std. Pkg. Qty.
			B	C	D	
Conductor Parallel to Pipe						
GPLAC2-1-C	#10 SOL – #2 STR	1/2 – 1	1.65	0.68	0.36	100
Conductor Perpendicular to Pipe						
GPLBC2-1-C	#10 SOL – #2 STR	1/2 – 1	1.65	0.68	0.36	100

Zinc Ground Clamp

- Bonds steel and aluminum pipe to aluminum conductors
- Made from die cast zinc
- Zinc plated steel hardware
- Wire range-taking capability minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding

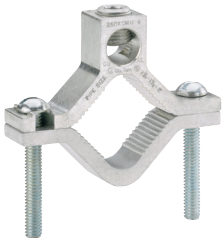
GPCZ2-1-C

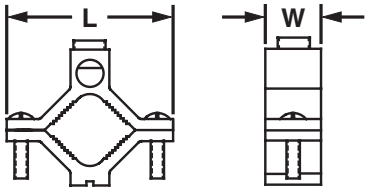


Part Number	Conductor Size Range (AWG)	Iron Pipe Size (In.)	Figure Dimensions (In.)			Std. Pkg. Qty.
			B	C	D	
GPCZ2-1-C	#10 SOL – #2 STR	1/2 – 1	1.65	0.81	0.55	100

Aluminum Grounding Clamp for Water Pipes

- Dual-rated for grounding aluminum or copper code conductors to copper water pipe, galvanized pipe, or steel conduit
- Made from high strength, extruded aluminum alloy to provide long term durability
- Tin-plated to inhibit corrosion and oxidation and for low contact resistance
- Plated steel screws provide high strength and inhibit corrosion
- Accommodates a wide range of pipe, tube, and conductor sizes – minimizes inventory requirements, saves cost
- UL 467 Listed for grounding and bonding

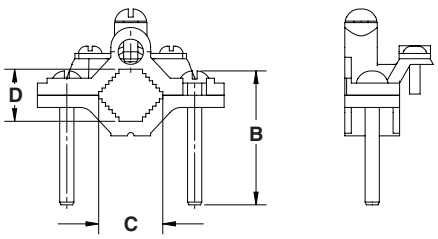




Part Number	Conductor Size Range (AWG)	Conduit Pipe or Water Tube Size (In.)	Figure Dimensions (In.)		Std. Pkg. Qty.
			L	W	
GC-15A-Q	#14 – 1/0	1/2 – 3/4 – 1	2.25	0.69	25
GC-18A-X	#6 – 250 kcmil	1 1/4 – 1 1/2 – 2	3.75	0.81	10
GC-22A-4	#6 – 250 kcmil	2 1/2 – 3 – 3 1/2 – 4	6.31	1.00	4

Bronze Ground Clamp, Armored Cable

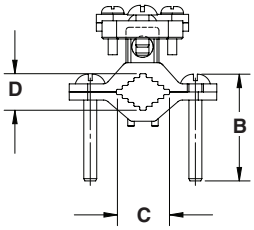
- Bonds water pipe to copper conductors in armored cables
- Made from high strength, electrolytic cast bronze
- Wire range-taking capability minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding; GPCA2-1D-C is suitable for direct burial in earth or concrete

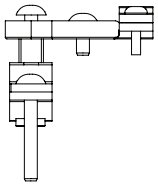


Part Number	Conductor Size Range (AWG)	Iron Pipe Size (In.)	Figure Dimensions (In.)			Std. Pkg. Qty.
			B	C	D	
Phos Bronze Hardware						
GPCA2-1D-C	#8 SOL – #4 STR	1/2 – 1	1.65	1.00	0.59	100
Zinc Plated Steel Hardware						
GPCA2-1-C	#8 SOL – #4 STR	1/2 – 1	1.65	1.00	0.59	100
GPCA2-2-L	#8 SOL – #4 STR	1 1/4 – 2	2.22	2.22	1.19	50
GPCA2-4-X	#8 SOL – #4 STR	2 1/2 – 4	4.25	3.83	2.70	10
GPCA2-6-X	#8 SOL – #4 STR	4 1/2 – 6	5.20	5.96	4.50	10

Bronze Ground Clamp for Armored Cable with Swivel

- Bonds water pipe to copper conductors in armored cables
- Swivel feature provides easy alignment of conductor to clamp
- Made from high strength, electrolytic cast bronze
- Zinc plated steel hardware
- Wire range-taking capability minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding

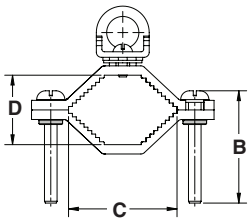


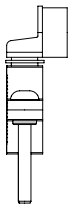


Part Number	Conductor Size Range (AWG)	Iron Pipe Size (In.)	Figure Dimensions (In.)			Std. Pkg. Qty.
			B	C	D	
GPCWA6-1-L	#10 SOL – #6 STR	1/2 – 1	1.65	0.78	0.63	50
GPCWA6-2-L	#10 SOL – #6 STR	1 1/4 – 2	2.22	2.09	1.44	50
GPCWA6-4-X	#10 SOL – #6 STR	2 1/2 – 4	4.25	4.15	2.73	10

Bronze Ground Clamp for Conduit

- Bonds water pipe to rigid conduit and to copper conductors in EMT and rigid conduit
- Includes high strength bronze conduit hub to ensure a durable connection to conduit
- Made from high strength, electrolytic cast bronze
- Zinc plated steel hardware
- Wire range-taking capability minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding

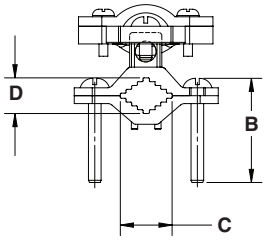


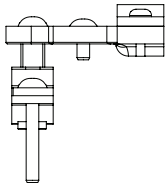


Part Number	Conductor Size Range (AWG)	Iron Pipe Size (In.)	Conduit Hub Size (In.)	Figure Dimensions (In.)			Std. Pkg. Qty.
				B	C	D	
GPC4-1-12-Q	#8 SOL – #4 STR	1/2 – 1	1/2	1.65	1.00	0.56	25
GPC4-1-34-L	#8 SOL – #4 STR	1/2 – 1	3/4	1.65	1.00	0.56	50
GPC4-1-1-L	#8 SOL – #4 STR	1/2 – 1	1	1.65	1.00	0.56	50
GPC4-2-12-L	#8 SOL – #4 STR	1 1/4 – 2	1/2	2.22	2.08	1.33	50
GPC4-2-34-Q	#8 SOL – #4 STR	1 1/4 – 2	3/4	2.22	2.08	1.33	25
GPC4-2-1-Q	#8 SOL – #4 STR	1 1/4 – 2	1	2.22	2.08	1.33	25
GPC4-4-12-X	#8 SOL – #4 STR	2 1/2 – 4	1/2	4.25	3.81	2.75	10
GPC4-4-34-X	#8 SOL – #4 STR	2 1/2 – 4	3/4	4.25	3.81	2.75	10
GPC4-4-1-X	#8 SOL – #4 STR	2 1/2 – 4	1	4.25	3.81	2.75	10
GPC4-6-12-X	#8 SOL – #4 STR	4 1/2 – 6	1/2	5.20	6.00	2.90	10
GPC4-6-34-5	#8 SOL – #4 STR	4 1/2 – 6	3/4	5.20	6.00	2.90	5
GPC4-6-1-X	#8 SOL – #4 STR	4 1/2 – 6	1	5.20	6.00	2.90	10

Bronze Ground Clamp with Conduit Hub and Swivel

- Bonds water pipe to rigid conduit and to copper conductors in EMT and rigid conduit
- Split hub design provides conduit range-taking capability to minimize inventory requirements, saves cost
- Made from high strength, electrolytic cast bronze
- Zinc plated steel hardware
- Wire range-taking capability minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding

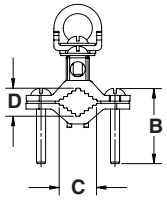


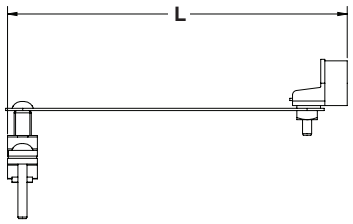


Part Number	Conductor Size Range (AWG)	Iron Pipe Size (In.)	Conduit Hub Size (In.)	Figure Dimensions (In.)			Std. Pkg. Qty.
				B	C	D	
GPCW6-1-12-L	#10 SOL – #6 STR	1/2 – 1	1/2 – 3/4 EMT 1/2 Rigid	1.65	0.78	0.63	50
GPCW6-2-12-Q	#10 SOL – #6 STR	1 1/4 – 2	1/2 – 3/4 EMT 1/2 Rigid	2.22	2.09	1.44	25
GPCW6-4-12-X	#10 SOL – #6 STR	2 1/2 – 4	1/2 – 3/4 EMT 1/2 Rigid	4.25	4.15	2.73	10

Bronze Ground Clamp for Conduit with Strap

- Bonds water pipe to rigid conduit and to copper conductors in EMT and rigid conduit
- Copper contact strip included to isolate conduit system from water pipe vibrations
- Includes high strength bronze conduit hub to ensure a durable connection to conduit
- Made from high strength, electrolytic cast bronze
- Zinc plated steel hardware
- Wire range-taking capability minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding

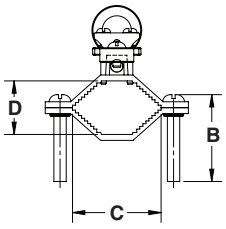


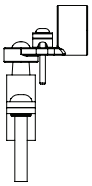


Part Number	Conductor Size Range (AWG)	Iron Pipe Size (In.)	Conduit Hub Size (In.)	Figure Dimensions (In.)				Std. Pkg. Qty.
				B	C	D	L	
GPCS4-1-12-L	#8 SOL – #4 STR	1/2 – 1	1/2	1.65	0.78	0.63	7.25	50
GPCS4-2-12-L	#8 SOL – #4 STR	1/2 – 1	3/4	1.65	0.78	0.63	7.50	50
GPCS4-4-12-L	#8 SOL – #4 STR	1/2 – 1	1	1.65	0.78	0.63	7.75	50

Bronze Ground Clamp for Conduit with Guillotine

- Bonds water pipe to rigid conduit and to copper conductors in EMT and rigid conduit
- Includes high strength bronze conduit hub to ensure a durable connection to conduit
- Guillotine feature provides high clamping force on grounding conductor
- Made from high strength, electrolytic cast bronze
- Zinc plated steel hardware
- Wire range-taking capability minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding

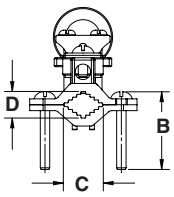


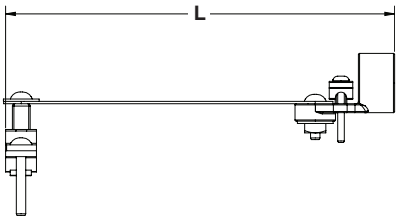


Part Number	Conductor Size Range (AWG)	Iron Pipe Size (In.)	Conduit Hub Size (In.)	Figure Dimensions (In.)			Std. Pkg. Qty.
				B	C	D	
GPCG2/0-1-12-L	#10 SOL – 2/0 STR	1/2 – 1	1/2	1.65	0.78	0.63	50
GPCG2/0-1-34-L	#10 SOL – 2/0 STR	1/2 – 1	3/4	1.65	0.78	0.63	50
GPCG3/0-1-1-L	#10 SOL – 3/0 STR	1/2 – 1	1	1.65	0.78	0.63	50
GPCG2/0-2-12-Q	#10 SOL – 2/0 STR	1 1/4 – 2	1/2	2.22	2.09	1.44	25
GPCG2/0-2-34-Q	#10 SOL – 2/0 STR	1 1/4 – 2	3/4	2.22	2.09	1.44	25
GPCG3/0-2-1-Q	#10 SOL – 3/0 STR	1 1/4 – 2	1	2.22	2.09	1.44	25
GPCG2/0-4-12-E	#10 SOL – 2/0 STR	2 1/2 – 4	1/2	4.25	4.15	2.73	20
GPCG2/0-4-34-E	#10 SOL – 2/0 STR	2 1/2 – 4	3/4	4.25	4.15	2.73	20
GPCG3/0-4-1-X	#10 SOL – 3/0 STR	2 1/2 – 4	1	4.25	4.15	2.73	10

Bronze Ground Clamp for Conduit with Strap and Guillotine

- Bonds water pipe to rigid conduit and to copper conductors in EMT and rigid conduit
- Copper contact strip included to isolate conduit system from water pipe vibrations
- Includes high strength bronze conduit hub to ensure a durable connection to conduit
- Guillotine feature provides high clamping force on grounding conductor
- Made from high strength, electrolytic cast bronze
- Zinc plated steel hardware
- Wire range-taking capability minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding

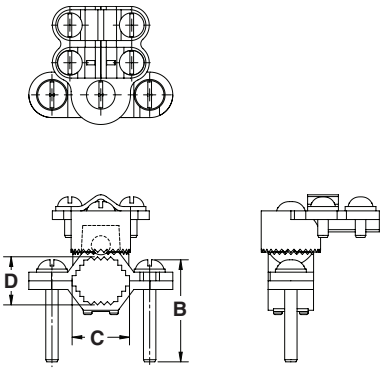




Part Number	Conductor Size Range (AWG)	Iron Pipe Size (In.)	Conduit Hub Size (In.)	Figure Dimensions (In.)				Std. Pkg. Qty.
				B	C	D	L	
GPCSG4-1-12-X	#8 SOL – #4 STR	1/2 – 1	1/2	1.65	0.78	0.63	8.12	10
GPCSG4-2-12-Q	#8 SOL – #4 STR	1/2 – 1	3/4	1.65	0.78	0.63	8.25	25
GPCSG4-4-12-Q	#8 SOL – #4 STR	1/2 – 1	1	1.65	0.78	0.63	8.37	25

Bronze Ground Clamp, Heavy Duty

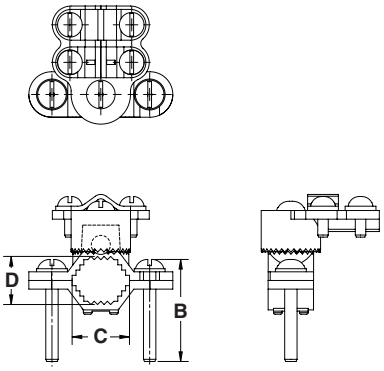
- Bonds water pipe to copper conductors
- Heavy duty construction for increased durability
- Made from high strength, electrolytic cast bronze
- Zinc plated steel hardware
- Wire range-taking capability minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding



Part Number	Conductor Size Range (AWG)	Iron Pipe Size (In.)	Figure Dimensions (In.)			Std. Pkg. Qty.
			B	C	D	
GPCH4/0-1-L	#8 SOL – 4/0 STR	1/2 – 1	1.65	0.88	0.69	50
GPCH4/0-2-Q	#8 SOL – 4/0 STR	1 1/4 – 2	2.22	2.09	1.25	25
GPCH4/0-4-E	#8 SOL – 4/0 STR	2 1/2 – 4	4.25	4.19	2.59	20
GPCH4/0-6-X	#8 SOL – 4/0 STR	4 1/2 – 6	5.20	5.94	2.64	10

Bronze Ground Clamp, Heavy Duty, Direct Burial

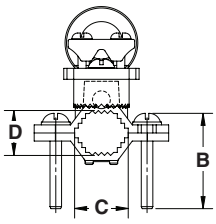
- Bonds water pipe to copper conductors
- Heavy duty construction for increased durability
- Made from high strength, electrolytic cast bronze
- High strength phos bronze hardware provides long term reliable assembly
- Wire range-taking capability minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete

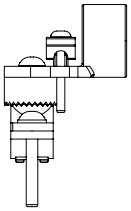


Part Number	Conductor Size Range (AWG)	Iron Pipe Size (In.)	Figure Dimensions (In.)			Std. Pkg. Qty.
			B	C	D	
GPCH4/0-1D-L	#8 SOL – 4/0 STR	1/2 – 1	1.65	0.88	0.69	50
GPCH4/0-2D-Q	#8 SOL – 4/0 STR	1 1/4 – 2	2.22	2.09	1.25	25

Bronze Ground Clamp for Conduit with Guillotine, Heavy Duty

- Bonds water pipe to rigid conduit and to copper conductors in EMT and rigid conduit
- Heavy duty construction for increased durability
- Includes high strength bronze conduit hub to ensure a durable connection to conduit
- Guillotine feature provides high clamping force on grounding conductor
- Made from high strength, electrolytic cast bronze
- Zinc plated steel hardware
- Wire range-taking capability minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding

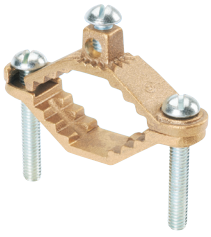


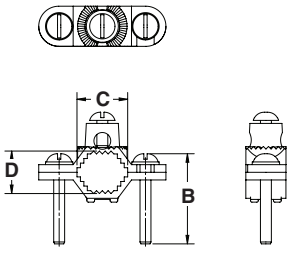


Part Number	Conductor Size Range (AWG)	Iron Pipe Size (In.)	Conduit Hub Size (In.)	Figure Dimensions (In.)			Std. Pkg. Qty.
				B	C	D	
GPCH2/0-1-12-Q	#10 SOL – 2/0 STR	1/2 – 1	1/2	1.65	0.88	0.69	25
GPCH3/0-1-34-Q	#10 SOL – 3/0 STR	1/2 – 1	3/4	1.65	0.88	0.69	25
GPCH3/0-1-1-Q	#10 SOL – 3/0 STR	1/2 – 1	1	1.65	0.88	0.69	25
GPCH2/0-2-12-Q	#10 SOL – 2/0 STR	1 1/4 – 2	1/2	2.22	2.09	1.25	25
GPCH3/0-2-34-Q	#10 SOL – 3/0 STR	1 1/4 – 2	3/4	2.22	2.09	1.25	25
GPCH3/0-2-1-Q	#10 SOL – 3/0 STR	1 1/4 – 2	1	2.22	2.09	1.25	25
GPCH2/0-4-12-X	#10 SOL – 2/0 STR	2 1/2 – 4	1/2	4.25	4.19	2.59	10
GPCH3/0-4-34-X	#10 SOL – 3/0 STR	2 1/2 – 4	3/4	4.25	4.19	2.59	10
GPCH3/0-4-1-X	#10 SOL – 3/0 STR	2 1/2 – 4	1	4.25	4.19	2.59	10
GPCH2/0-6-12-X	#10 SOL – 2/0 STR	4 1/2 – 6	1/2	5.20	5.94	2.64	10
GPCH3/0-6-34-X	#10 SOL – 3/0 STR	4 1/2 – 6	3/4	5.20	5.94	2.64	10
GPCH3/0-6-1-X	#10 SOL – 3/0 STR	4 1/2 – 6	1	5.20	5.94	2.64	10

Bronze Ground Clamp, Heavy Duty Base

- Use alone to bond water pipes to copper conductors
- When combined with heavy duty bronze ground hubs, bonds water pipes to conductors and conduits
- When used with heavy duty bronze ground hubs installation flexibility is increased, and inventory costs are decreased compared to stocking complete clamp assemblies
- Heavy duty construction for increased durability
- Made from high strength, electrolytic cast bronze
- Zinc plated steel hardware
- Wire range-taking capability minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding





Part Number	Conductor Size Range (AWG)	Iron Pipe Size (In.)	Figure Dimensions (In.)			Std. Pkg. Qty.
			B	C	D	
GPCH2-1-C	#10 SOL – #2 STR	1/2 – 1	1.65	0.88	0.69	100
GPCH2-2-L	#10 SOL – #2 STR	1 1/4 – 2	2.22	2.09	1.25	50
GPCH2-4-E	#10 SOL – #2 STR	2 1/2 – 4	4.25	4.19	2.59	20
GPCH2-6-X	#10 SOL – #2 STR	4 1/2 – 6	5.20	5.94	2.64	10

Heavy Duty Bronze Hubs

- Combine with heavy duty bronze ground clamp bases to bond water pipes to rigid conduits and to copper conductors in EMT and rigid conduit
- When used with heavy duty bronze ground clamp bases, installation flexibility is increased, while inventory costs are decreased when compared with stocking complete clamp assemblies
- Heavy duty construction for increased durability
- Made from high strength, electrolytic cast bronze
- Zinc plated steel hardware
- Wire range-taking capability minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding

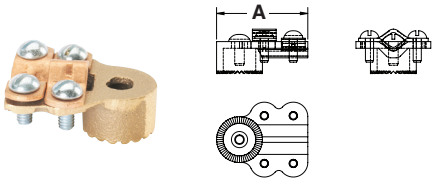


Figure 1

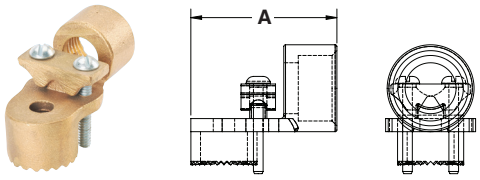
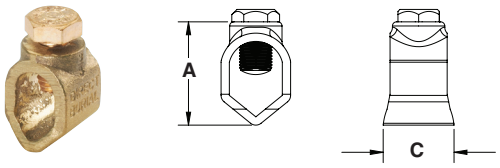


Figure 2

Part Number	Conductor Size Range (AWG)	Conduit Hub Size (In.)	Figure No.	Figure Dimensions (In.)	Std. Pkg. Qty.
				A	
GHCH4/0-C	#8 SOL – 4/0 STR	—	1	1.89	100
GHCH2/0-12-L	#10 SOL – 2/0 STR	1/2	2	2.30	50
GHCH3/0-34-L	#10 SOL – 3/0 STR	3/4	2	2.42	50
GHCH3/0-1-L	#10 SOL – 3/0 STR	1	2	2.39	50

Bronze Ground Rod Clamps, Direct Burial

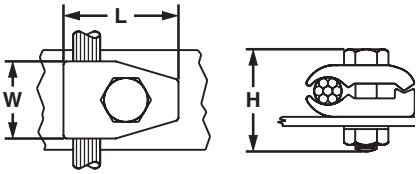
- Used for grounding copper conductor parallel to ground rods
- Made from high strength, seamless electrolytic bronze to provide long term durability
- High strength phos bronze hardware provides long term reliable assembly
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete



Part Number	Conductor Size Range (AWG)	Ground Rod Size (In.)	Figure Dimensions (In.)		Hex Head Size (In.)	Std. Pkg. Qty.
			A	C		
Standard Duty						
GRC4-38-TL	#10 SOL – #4 STR	3/8	1.00	0.82	1/2	250
GRC2-12-TL	#10 SOL – #2 STR	1/2	1.19	0.68	1/2	250
GRC2-58-TL	#10 SOL – #2 STR	5/8	1.34	0.64	1/2	250
GRC2-34-T	#10 SOL – #2 STR	3/4	1.48	0.71	1/2	200
WB12-L	#10 SOL – #2 STR	1/2	1.28	0.88	1/2	50
WB34-X	#8 STR – 1/0 STR #8 STR – #2 STR	5/8 3/4	1.54	1.03	1/2	10
WB58-Q	#8 STR – 1/0 STR	5/8	1.40	1.04	1/2	25
Heavy Duty						
GRCH2-12-T	#10 SOL – #2 STR	1/2	1.25	0.82	1/2	200
GRCH1/0-58-T	#8 SOL – 1/0 STR	5/8	1.42	0.99	1/2	200
GRCH1/0-34-E	#8 SOL – 1/0 STR	3/4	1.60	0.97	1/2	20

Bronze Grounding Clamp with Spacer for Flat Surfaces

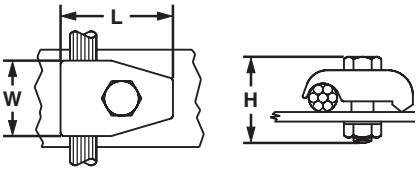
- Used to ground copper code conductor to flat surfaces
- Cast from high strength, electrolytic bronze to provide reliable grounding connections
- High strength silicon bronze hardware for long term reliable assembly
- Accommodates a wide range of conductor sizes – minimizes inventory requirements, saves cost
- Incorporates spacer plate to separate conductor from mounting surface
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete



Part Number	Conductor Size Range (AWG)	Figure Dimensions (In.)			Hex Size (In.)		Std. Pkg. Qty.
		L	W	H	Bolt	Nut	
GM-2-Q	#4 SOL – 2/0 STR	1.63	1.13	1.75	9/16	9/16	25
GM-3-Q	2/0 SOL – 250 kcmil	2.13	1.50	2.00	3/4	3/4	25

Bronze Grounding Clamp for Flat Surfaces

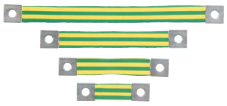
- Used to ground copper code conductor to flat surfaces
- Cast from high strength, electrolytic bronze to provide reliable grounding connections
- High strength silicon bronze hardware for long term reliable assembly
- Accommodates a wide range of conductor sizes – minimizes inventory requirements, saves cost
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete



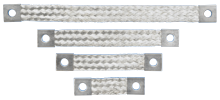
Part Number	Conductor Size Range (AWG)	Figure Dimensions (In.)			Hex Size (In.)		Std. Pkg. Qty.
		L	W	H	Bolt	Nut	
GMS-1-X	#8 SOL – #4 STR	1.25	1.00	1.63	9/16	9/16	10
GMS-2-Q	#4 SOL – 2/0 STR	1.63	1.13	1.75	9/16	9/16	25
GMS-3-Q	2/0 SOL – 250 kcmil	2.13	1.50	2.00	3/4	3/4	25

Flat Braided Bonding Straps

- Used to electrically bond enclosure doors, motors, and machine frames in the construction of control panels or machine structures
- Flat ferrule end design helps to reduce the effects of EMI (Electromagnetic Interference)
- Available with internationally recognized green and yellow insulation for grounding application
- Made of high conductivity copper and tin-plated to inhibit corrosion
- Seamless ferrule ends provide mechanical strength for improved reliability
- cULus 467 Listed



One Hole, Insulated



One Hole, Non-Insulated

Two-Hole, Non-Insulated

Part Number	Conductor Size (AWG)	Length (In.)	Width (In.)	Thickness (In.)	Ferrule Length (In.)	Stud Hole Size (In.)	Stud Hole Spacing (In.)	Std. Pkg. Qty.
One-Hole, Insulated								
BS100445	#4	4.00	1.06	0.13	1.00	3/8	—	1
BS100645	#4	6.00	1.06	0.13	1.00	3/8	—	1
BS100845	#4	8.00	1.06	0.13	1.00	3/8	—	1
BS101245	#4	12.00	1.06	0.13	1.00	3/8	—	1
One-Hole, Non-Insulated								
BS100445U	#4	4.00	1.06	0.13	1.00	3/8	—	1
BS100645U	#4	6.00	1.06	0.13	1.00	3/8	—	1
BS100845U	#4	8.00	1.06	0.13	1.00	3/8	—	1
BS101245U	#4	12.00	1.06	0.13	1.00	3/8	—	1
Two-Hole, Non-Insulated								
BS201246EU	#4	12.00	1.06	0.13	2.50	3/8	1.25	1
BS201846EU	#4	18.00	1.06	0.13	2.50	3/8	1.25	1
BS202446EU	#4	24.00	1.06	0.13	2.50	3/8	1.25	1

Joint Compounds

- Oxide inhibitor for compression conductor connections lowers electrical resistance of compression joint while sealing out air and moisture to prevent the formation of surface oxides
- Wide operating temperature range; can be used in a wide range of electrical and environmental conditions
- Packaged in convenient dispenser bottles

Part Number	Part Description	Std. Pkg. Qty.
CMP-100-1	Contact aid for pad-to-pad or thread-to-thread aluminum connections, 8 oz. Operating temperature range -60°F (-51°C) to 400°F (204°C).	1
CMP-200-1	Contact aid for cable connections with compression connections made on aluminum conductor, 8 oz. Operating temperature range -40°F (-40°C) to 400°F (204°C). Compatible with all insulating materials.	1
CMP-300-1	Contact aid for copper-to-copper and copper-to-steel connections, 8 oz. Operating temperature range -40°F (-40°C) to 350°F (177°C). Good for all voltages and suitable for grounding. Also used for anti-seizing thread lubricant.	1
CMP-300-4-1	Contact aid for copper-to-copper and copper-to-steel connections, 4 oz. Operating temperature range -40°F (-40°C) to 350°F (177°C). Good for all voltages and suitable for grounding. Also used for anti-seizing thread lubricant.	1

WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT CANADA
Markham, Ontario
cs-cdn@panduit.com
Phone: 800.777.3300

PANDUIT EUROPE LTD.
London, UK
cs-emea@panduit.com
Phone: 44.20.8601.7200

PANDUIT SINGAPORE PTE. LTD.
Republic of Singapore
cs-ap@panduit.com
Phone: 65.6305.7575

PANDUIT JAPAN
Tokyo, Japan
cs-japan@panduit.com
Phone: 81.3.6863.6000

PANDUIT LATIN AMERICA
Guadalajara, Mexico
cs-la@panduit.com
Phone: 52.33.3777.6000

PANDUIT AUSTRALIA PTY. LTD.
Victoria, Australia
cs-aus@panduit.com
Phone: 61.3.9794.9020

For a copy of Panduit product warranties, log on to www.panduit.com/warranty

For more information

Visit us at www.panduit.com

Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300

©2015 Panduit Corp.
ALL RIGHTS RESERVED.
Printed in the U.S.A.
GRCB02--SA-ENG
1/2015