

# Cable Tray Ground Clamp

## Type CTGC

### Use:

Terminates ground wire to cable tray.

### Features:

- For aluminum or copper conductors.
- 1/4" hex wrench tightens both tray and conductor set screws.
- Tray-gripping serrations bite through insulating oxide on surface of aluminum tray.
- For 1/2" max. straight tray rail, or 1/4" 90° tray rail.
- Conductor size #6 to 250 MCM

### Material/Finish:

Clamp - Extruded Aluminum/Tin Plated  
Screws - Steel/Zinc Electroplated

### Options:

Stainless steel screws are available - add suffix **SS**

### Third Party Certification:



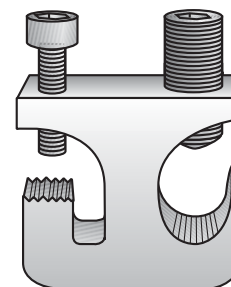
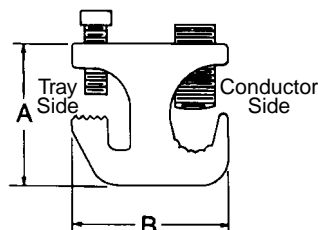
UL Listed: E-24264



CSA Certified: 009795

For copper conductors only.

Catalog Number	Conductor Range AWG/kcmil		Dimensions in Inches	
	Min.	Max.	A	B
CTGC-6-25A	6	250	2	1 3/4



Type CTGC

### Applicable Third Party Standards:

UL Standard: 467

CSA Standard: C22.2 No. 41

NEC 250-77 and 318-6

# Ground Rod Clamps

## Commodity Grade

## Type GRC

### Use:

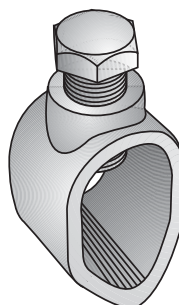
To ground a conductor to a driven ground rod.

### Features:

- High strength cast bronze.
- Suitable for direct burial.

### Material:

Cast Bronze



Type GRC

### Third Party Certification:



UL Listed: E-24264

Suitable for direct burial.



CSA Certified: 057250

### Applicable Third Party Standards:

UL Standard 467

CSA Standard: C22.2 No. 41

National Electrical Code

Articles 250-112, 250-113 and 250-115

NEMA: FB-1

Catalog Number	Ground Rod Size Inches	Screw Thread Size (UNC-2A)	Conductor Range AWG		Dimensions in Inches		
			Min.	Max.	Max. Height	Max. Width Across Open End	Side Length
GRC-50-02B	1/2	3/8 - 16	10	2	1 13/16	13/16	1 1/8
GRC-62-02B	3/8	3/8 - 16	10	2	1 7/8	15/16	5/8
GRC-62-10B	3/8	3/8 - 16	8	1/0	1 15/16	7/8	1
GRC-75-10B	3/4	3/8 - 16	8	1/0	2 3/16	1 1/16	1 1/8

# Universal Ground Clamp System

## Type G

### Use:

For connecting grounding conductors to cold water ground pipe in sizes 1¼" through 12".

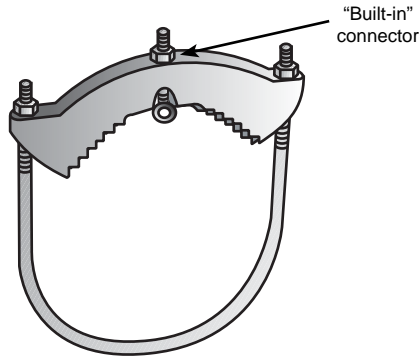
### Features:

- Standard built-in ground wire connector for #8 Sol. through #2 Str. AWG wire.
- Provision for separate 2-station attachment of additional swivel accessories are listed in ground clamp accessories tables. See page MA-3.
- Cast Bronze clamps are suitable for direct burial.

### Material/Finish:

Catalog Numbers with suffix "G" are Malleable Iron, Hot Dip Galvanized. Bolts and Nuts are Steel, Hot Dip or Mechanically Galvanized.

Catalog Numbers with suffix "B" are Cast Bronze with Silicon Bronze Bolts and Nuts.



**Type G**

### Third Party Certification:



UL Listed: E-24264



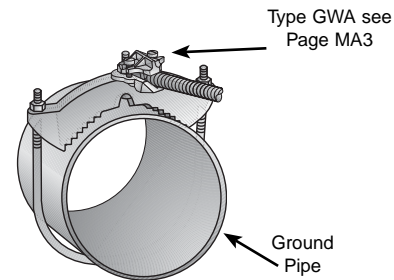
CSA Certified: 009795

### Applicable Third Party Standards:

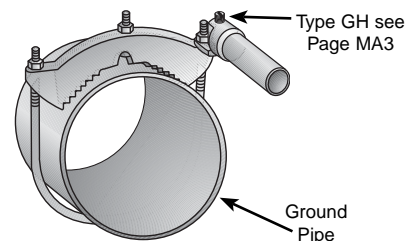
UL Standard: 467

CSA Standard: C22.2 No. 18

Fed. Spec: W-F-406E



**Type G with Type GWA  
Armor Ground Wire Connector**



**Type G with Type GH  
Ground Hub**

### Accessories: (see page MA3)

- For larger conductors add Type GWD dead end terminals.
- For connecting conductors run in conduit, add Type GH swivel ground hubs.
- For connecting armored ground wire, add Type GWA Terminal.

Malleable Iron Catalog Number	Cast Bronze Catalog Number	Nominal Size	Ground Pipe Size		Dimensions in Inches			U-Bolt
			O.D. Range Min.	Max.	Thk.	Width	Height Max.	
G-200G	G-200B	1¼—1½—2	1.660	2.375	⅞	3⅞	4⅞	⅝
G-350G	G-350B	2½—3—3½	2.875	4.000	⅞	5¼	6⅞	⅝
G-500G	G-500B	4—4½—5	4.500	5.563	⅞	6⅞	8	⅝
G-600G	G-600B	6	6.000	7.100	⅞	8⅞	9⅞	⅝
G-800G	G-800B	8	8.000	9.300	⅞	10⅞	11⅞	⅝
G-1000G	G-1000B	10	10.000	11.400	⅞	12¼	13⅞	⅝
G-1200G	G-1200B	12	12.000	13.500	⅞	14⅞	16	⅝

## Type GES

### Flexible Ground Strap

### Use:

To provide flexible connection between ground hub and universal clamp.

**Material:** Copper

### Third Party Certification:



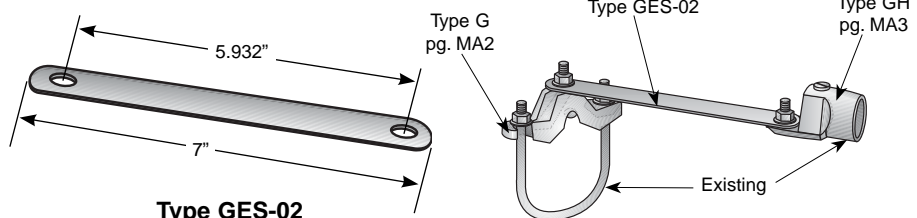
UL Listed: E-24264

### Applicable Third Party Standards:

UL Standard: 467

CSA Standard: C22.2 No. 41

Fed. Spec: W-F-406E



**Type GES-02**

**Type GES-02 between Hub and  
Ground Clamp**

### Note:

Suitable for direct burial when used with clamps and accessories that are suitable for direct burial.

Catalog Number	Number of Straps (Required)	Mounting Centers	Dimensions in Inches				Max. Ground Wire Size
			Width	Strap Holes	Thickness		
GES-02	1	6	1	.342	⅞		2 AWG/kcmil
	2	6	1	.342	⅞		2/0 AWG/kcmil
	3	6	1	.342	⅞		3/0 AWG/kcmil
	4	6	1	.342	⅞		250 AWG/kcmil

# Universal Ground Clamp Accessories

## Type GH, GWA & GWD – Swivel Types


### Use:

For use with the universal ground clamps to connect grounding conductors run bare, in armor, or in conduit. Fits all basic ground clamp systems, G-200G through G-1200G and G-200B through G-1200B. See Page MA2.

### Material/Finish:

Type GH-G - Malleable Iron-Hot Dip Galvanized; Steel Screws Zinc Electroplated  
Type GH-B - Cast Bronze, Brass Screws  
Type GWA - Cast Bronze, Silicon Bronze Screws  
Type GWD - Cast Bronze, Brass Screws

### Third Party Certification:

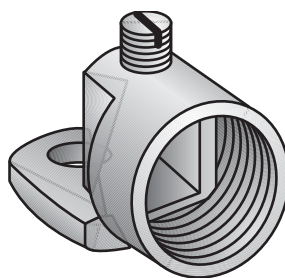
 UL Listed: E24264

### Applicable Third Party Standards:

UL Standard: 467  
Fed. Spec: W-F-406E

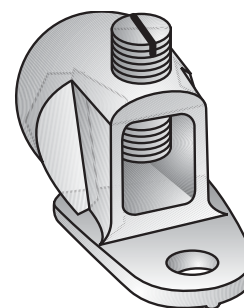
### Note:

All cast bronze and brass accessories are suitable for direct burial.



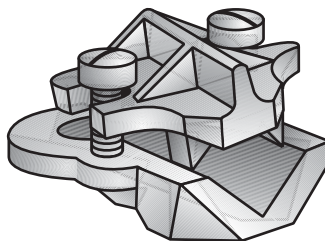
**Type GH-G**

Malleable Iron – Hot Dip Galvanized



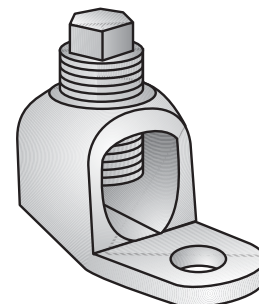
**Type GH-B**

Cast Bronze



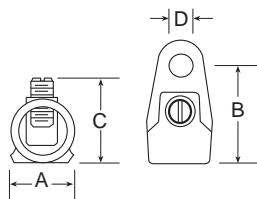
**Type GWA**

Cast Bronze

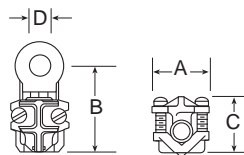


**Type GWD**

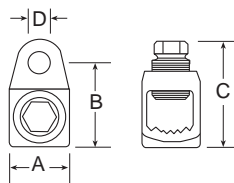
Cast Bronze



**Type GH**



**Type GWA**



**Type GWD**

### GROUND HUBS

Malleable Iron Catalog Number	Cast Bronze Catalog Number	Hub Trade Size (In.)	Conductor Range AWG/kcmil		Dimensions in Inches			
			Min.	Max.	A	B	C Max.	D
GH-50G	GH-50B	½	8	2	1	1½	1⅜	⅜
GH-75G	GH-75B	¾	4	2/0	1¼	1⅞	1⅞	⅜
GH-100G	GH-100B	1	1	250	1½	2⅞	2⅞	⅜
GH-125G	GH-125B	1¼	4/0	500	1⅞	2½	2⅞	⅜

### ARMORED GROUND WIRE CONNECTOR

Catalog Number	Conductor Range AWG/kcmil		Max. Armor Dia.	Dimensions in Inches			
	Min.	Max.		A	B	C Max.	D
GWA-04B	8 Sol.	4 Str.	.396	1⅞	1⅞	1⅞	⅜

### BARE OR INSULATED WIRE DEAD END TERMINAL HUB

Catalog Number	Conductor Range AWG/kcmil		Dimensions in Inches			
	Min.	Max.	A	B	C Max.	D
GWD-25B	1	250 Mcm	1⅞	1¼	1¼	⅜
GWD-50B	4/0	500 Mcm	1⅞	1⅞	2⅞	⅜

# Heavy Duty Ground Clamps

## Type GF-19G

Combination Armored Clamp or  
Bare Ground Wire


### Use:

For connecting armored or bare grounding wire to ground pipe

### Material/Finish:

Malleable Iron, Hot Dip or Mechanically  
Galvanized  
Screws are Steel, Zinc Electroplated

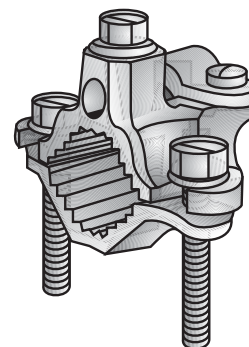
### Third Party Certification:

 UL Listed: E-24264

### Applicable Third Party Standards:

UL Standard: 467  
Fed. Spec: W-F-406E

Catalog Number	Ground Pipe Size Inches	Conductor Range AWG		Dimensions in Inches		
		Min.	Max.	Height	Width	Clamp Width
GF-19G	1/2-3/4-1	8	4	2 $\frac{3}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$



Type GF-19G

## Type G-50

Heavy Duty Ground Clamp w/Swivel  
Hub for threaded rigid conduit or IMC.


### Use:

For connecting grounding conductor (run in  
conduit) to ground pipe.

### Material/Finish:

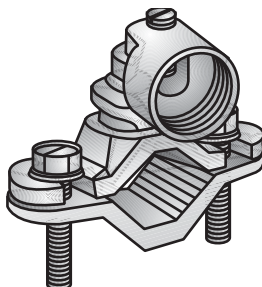
Malleable Iron, Hot Dip or Mechanically  
Galvanized  
Screws: Steel/Zinc Electroplated

### Third Party Certification:

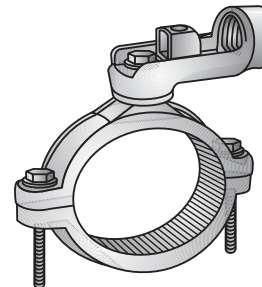
 UL Listed: E-24264

### Applicable Third Party Standards:

UL Standard: 467  
Fed. Spec: W-F-406E



Type G-50G



Type G-51G & Type G-52G

Ground Pipe Size Inches	Catalog Number	Conductor Range AWG/kcmil		Dimensions in Inches		
		Min.	Max.	Conduit Center to Top of Fitting	Clamp Width	
$\frac{1}{2}$	G-50G	8	2	1 $\frac{1}{4}$	1 $\frac{1}{8}$	2 $\frac{1}{2}$
$\frac{3}{4}$	G-51G	6	1/0	1 $\frac{1}{2}$	2 $\frac{3}{4}$	2 $\frac{1}{2}$
1	G-52G	1/0	250	1 $\frac{1}{2}$	3 $\frac{3}{8}$	2 $\frac{1}{2}$

# Pipe Ground Clamps

## Commodity Grade

### Type GC

For bare wire

### Type GCA

For armored cable

### Type GCH

With conduit hub

#### Use:

To ground a conductor to metallic pipe, tubing or ground rod.

#### Features:

- High strength cast copper alloy
- Screws electroplated to resist corrosion

#### Material:

Casting - Copper Alloy

Screws - Steel

#### Finish:

Copper Alloy - Natural finish

Screws - Zinc Electroplated

#### Features:

- GC: Bare wire clamp from #10 solid to #3 stranded AWG.
- GCA: Armored cable or rigid conduit clamp from #8 solid to #4 stranded AWG.
- GCH: Rigid conduit clamp from #10 solid #4 stranded AWG.
- GCA, GCH and GC-100-02B are reversible for attachment to ground rods.

#### Third Party Certification:



UL Listed: E-24264



CSA Certified: 057250

#### Applicable Third Party Standards:

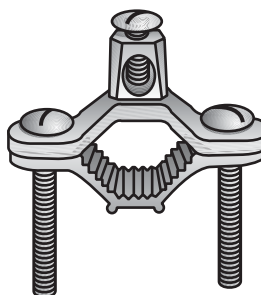
UL Standard: 467

CSA Standard : C22.2 No. 41

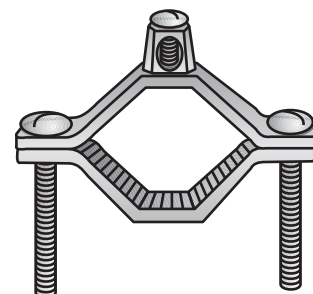
National Electrical Code

Article 250-26(c), 250-112, 250-115

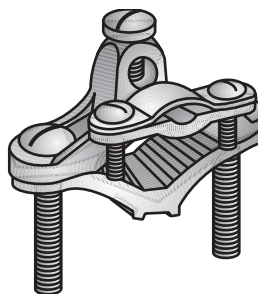
NEMA: FB-1



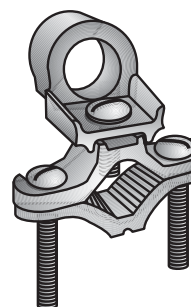
Type GC-100-02B



Type GC-200-02B



Type GCA-100-04B



Type GCH-100-50-04B

Catalog Number	Ground Pipe Size Inches	Conductor Range AWG Min. Max.	Conduit Hub Size Inches	Dimensions in Inches			Top of Pipe to Top of Fitting
				Height	Width	Clamp Width	
GC-100-02B	1/2 - 1	10 2	--	2 1/2	2 5/16	1 1/16	--
GC-200-02B	1 1/4 - 2	10 2	--	3 3/16	3 3/8	1 3/16	--
GCA-100-04B	1/2 - 1	8 4	--	2 1/2	2 3/8	1 1/16	--
GCH-100-50-04B	1/2 - 1	10 4	1/2	2 3/4	2 3/8	1 1/16	1 5/8