

# GROUND CONNECTORS

- C11000 electrolytic, unrecycled copper
- Cable from #6 AWG – 1000MCM
- Rod or Rebar from 3/8" – 1"
- Tin Plating available on all parts
- Pre-drilled inspection/weep hole
- IEEE & UL Qualified

## CONNECTIONS THAT BREAK THE MOLD

Electrical utilities, wind and solar farms, large scale grounding projects and countless industrial projects around the world trust the tested strength and technology of the DMC Power Swage System.

Designed to meet and exceed the rigorous testing requirements of IEEE 837, our robust grounding connectors give your projects a lifetime of worry free connections and a permanent low-resistance path to ground, no matter the weather or soil conditions.

## Discover the DMC Power Difference

### • ULTIMATE PERFORMANCE

Made with C11000 copper and the ability to carry the equivalent current (or greater) of the conductor, our connectors have conductivity ratings at 101% IACS, ensuring your substation has the highest level of performance and reliability possible.

### • FAST & CONVENIENT

All-weather operation reduces setup time and costly delays. Besides our tooling and connectors, no additional installation equipment, extra material, molds or shots are required.

### • VERSATILE TOOLING

Depending on the O.D., the same Power Unit & Head Assembly used with our Grounding Connectors can also be used with our line of Cable Connectors.

### • SAFE & RELIABLE

Push-button operation is simple, consistent and repeatable. Cold compression Swaging requires no special protective gear by eliminating heat, open flames and toxic fumes.

### • INSTANTLY INSPECTABLE

Confirming Swage results couldn't be easier; our "Go/No-Go" Inspection Gauge measures the Swage instantly, leaving you more time to get the job done.



*Handheld Swage Tools are compact, repeatable and easy to use in all conditions*



*360° compression reduces voids, allowing the fitting to run cooler*

## Can't Find What You Need?

Our connectors are available in a variety of sizes to fit most any situation, but when a custom solution is needed, turn to DMC Power. Our in-house team can design, test and manufacture connectors to fit any specification or use, all under one roof at our ISO 9001:2008 certified facility.



*Current Cycle Test per IEEE 837-2014*

## GC910

### 1-HOLE OFFSET PAD TERMINAL



#### ORDERING EXAMPLE

#### GC910B02GT

#2 AWG Barrel to 1", 1-Hole Offset Pad; Tin-Plated

## GC920

### 2-HOLE OFFSET PAD TERMINAL



#### ORDERING EXAMPLE

#### GC920B100T

1000 MCM Barrel to 2", 2-Hole Offset Pad; Tin-Plated

## GC929

### NO-HOLE OFFSET PAD TERMINAL



#### ORDERING EXAMPLE

#### GC929B030T

300 MCM Barrel to 1-3/4", No-Hole Offset Pad; Tin-Plated

## GC909

### 2-HOLE 90° PAD TERMINAL



#### ORDERING EXAMPLE

#### GC909B050

500 MCM Barrel to 2", 2-Hole 90° Pad

## GC922

### 2-HOLE OFFSET PAD DUAL CABLE TERMINAL



#### ORDERING EXAMPLE

#### GC922B004-004T

4/0 AWG Dual Cable Barrel to 1-3/4", 2-Hole Offset Pad; Tin-Plated

## GC912

### 1-HOLE OFFSET PAD DUAL CABLE TERMINAL



#### ORDERING EXAMPLE

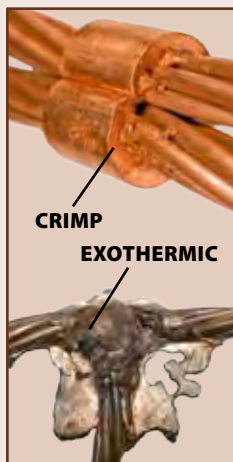
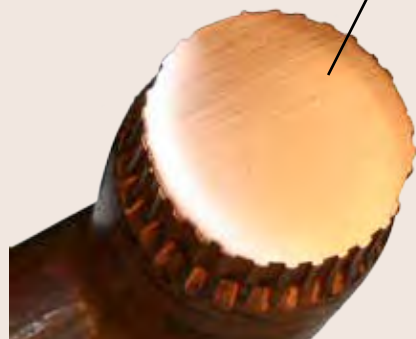
#### GC912B050-050T

500 MCM Dual Cable Barrel to 2", 1-Hole Offset Pad; Tin-Plated

## WHY TAKE A CHANCE WITH CRITICAL UTILITY INFRASTRUCTURE?

### SWAGED

Wire strands become cold-welded to the connector creating a superior connection without the heat!



## SWAGE SYSTEM



## GC733 SPLIT RUN TEE

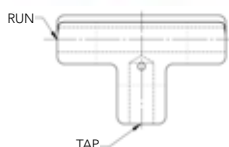
1 1/4" OD Weight  
~1 1/2 lbs

Cu COPPER SPLIT TIN PLATING

### ORDERING EXAMPLE

#### GC733B025-500

Tee with 250 MCM Split Run and 1/2" Ground Rod Tap



## GC731 THRU RUN TEE

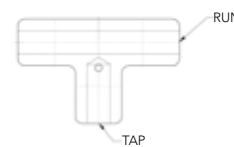
1 1/4" OD Weight  
~1 1/2 lbs

Cu COPPER TIN PLATING

### ORDERING EXAMPLE

#### GC731B002-025

Tee with 2/0 AWG Thru Run and 250 MCM Tap



## GC741 THRU HOLE CROSS

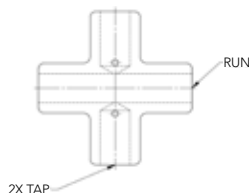
1 1/4" OD Weight  
~2 lbs

Cu COPPER TIN PLATING

### ORDERING EXAMPLE

#### GC741B025-002

Cross with 250 MCM Thru Run and two, 2/0 AWG Taps



## GC742 OFFSET DUAL SPLIT CROSS

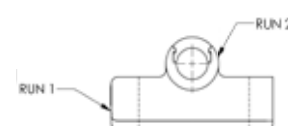
1 1/4" OD Weight  
~2 lbs

Cu COPPER SPLIT TIN PLATING

### ORDERING EXAMPLE

#### GC742B003-003

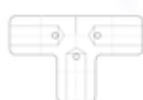
Offset Cross with 3/0 AWG and 250 MCM Split Runs



### ALSO AVAILABLE:

Visit [DMCPower.com](http://DMCPower.com) to see additional Cross, Tee and Elbow connector styles.

## GC730 3-TAP TEE



## GC740 4 TAP CROSS



## GC729 2-TAP ELBOW



## GC743 OFFSET SPLIT RUN ELBOW



## APPLICATION NOTES



### SIMPLIFY YOUR GROUND GRID USING 3 CONNECTORS

DMC Power Grounding connectors can be used in a variety of ways beyond their intended purpose. In fact, many customers have completed their entire grid with only the 3 parts on the following page:





## GC739 SPLIT RUN ELBOW

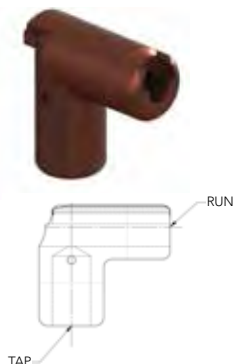
1 1/4" OD Weight  
~1 1/4 lbs

Cu COPPER SPLIT TIN PLATING

### ORDERING EXAMPLE

#### GC739B004-050

Elbow with 4/0 AWG Split Thru Run and 500 MCM Tap



## GC736 THRU RUN ELBOW

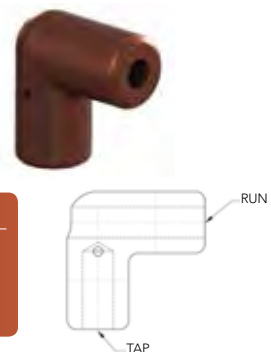
1 1/4" OD Weight  
~1 1/4 lbs

Cu COPPER TIN PLATING

### ORDERING EXAMPLE

#### GC736B02G-02G

Elbow with #2 AWG Thru Run and #2 AWG Tap



## GC759 OFFSET DUAL SPLIT ELBOW

1 1/4" OD Weight  
~1 1/4 lbs

Cu COPPER SPLIT TIN PLATING

### ORDERING EXAMPLE

#### GC759B003-025

Offset Elbow with 3/0 AWG and 250 MCM Split Thru Runs



## GC749 OFFSET SPLIT AND THRU RUN ELBOW

1 1/4" OD Weight  
~1 1/4 lbs

Cu COPPER SPLIT TIN PLATING

### ORDERING EXAMPLE

#### GC749B002-050

Offset Elbow with 2/0 AWG Split Thru Run and 500 MCM Thru Run



## GC888 / GC721

SPLIT  
PARALLEL



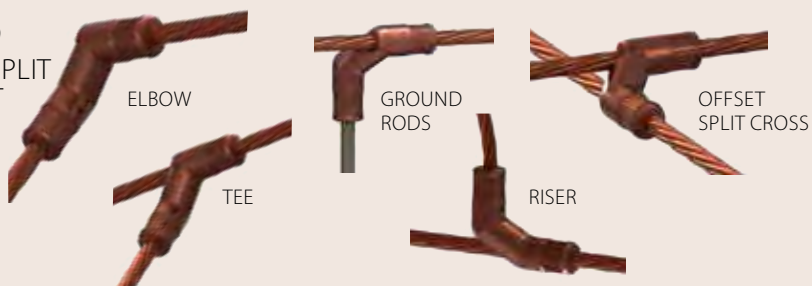
## GC739

SPLIT  
ELBOW



## GC759

DUAL SPLIT  
OFFSET  
CROSS



## GC721 SPLIT PARALLEL

1 1/4" OD Weight  
~1 1/4 lbs

Cu COPPER SPLIT TIN-PLATING

### ORDERING EXAMPLE

#### GC721B025-025

250 MCM to 250 MCM  
Split Parallel



## GC888 REDUCED SPLIT PARALLEL

1 1/4" OD Weight  
~1 1/4 lbs

Cu COPPER SPLIT TIN-PLATING

- Optimized design improves conductivity and performance while reducing material cost
- Solid web separation of conductors
- Single Swage installation
- Removable caps for easy installation
- Can be used as splice, tee, elbow or cross
- Fully tested and certified to all IEEE standards

### ORDERING EXAMPLE

#### GC888B002-002

2/0 AWG to 2/0 AWG Reduced  
Split Parallel



## GC720 SPLICE

1 1/4" OD Weight  
~1 1/4 lbs

Cu COPPER TIN-PLATING

### ORDERING EXAMPLE

#### GC720B025-500

250 MCM to 1/2" Steel  
Rod Splice



Separation  
of Conductors



Removable Split  
Caps



Single Swage  
Installation



Instantly  
Inspectable

## APPLICATION NOTES



## YOUR ONE STOP GROUND SOLUTION

DMC Power supplies all styles of high quality connectors needed to complete your grounding grid. With the push of a button on our lightweight tooling you can connect ground cables and rods in as little as 10 seconds. Trust the DMC Power Swage System for safe, repeatable, instantly inspectable and proven ground connections.

- GC920** – 2-Hole Terminal
- GC910** – 1-Hole Terminal
- GC740** – 4-Tap Cross
- GC729** – 2-Tap Elbow
- GC731** – Thru Run Tee
- GC721** – Split Parallel
- GC743** – Offset Split Elbow
- GC739** – Split Run Elbow
- GC759** – Offset Dual Split Elbow
- GC736** – Thru Run Elbow
- GC720** – Splice
- GC741** – Thru Run Cross
- GC730** – 3-Tap Tee
- GC746** – Alternate Thru Run Tee
- GC733** – Split Run Tee
- GC740** – 4-Tap Cross
- GC760** – Fence Post Connector
- GC888** – Reduced Split Parallel

## GC765

FENCE POST CONNECTOR TO NEMA PAD

3" Weight  
~3 lbs

Cu COPPER TIN PLATING



### ORDERING EXAMPLE

**GC765B 32-000-920 T**

2" Fence Post Bracket to a Right Aligned 2-Hole NEMA Pad; Tin-Plated

Fence Post NPS Size  
Left Side Terminal Type  
Right Side Terminal Type  
(000=None; 920=2-Hole;  
910=1-Hole)  
Tin Plating (Optional)

## GC762

SWINGING GATE CONNECTOR

3" Weight  
~5½ lbs

Cu COPPER TIN PLATING



### ORDERING EXAMPLE

**GC762B24-64-002 D T**

1-1/2" Swinging Gate Frame to 4" Gate Post with Dual 2/0 AWG Splices; Tin-Plated

Gate Frame NPS Size  
Gate Post NPS Size  
Splice Identifier Number  
Connector Placement  
(R=Right; L=Left; D=Dual)  
Tin Plating (Optional)

## GC760

FENCE POST CONNECTOR

3" Weight  
~4 lbs

Cu COPPER TIN PLATING



### ORDERING EXAMPLE

**GC760B 40-002-002 T**

2-1/2" Fence Post Bracket to Dual 1/0 AWG Splices

Fence Post NPS Size  
Left Splice Identifier Number  
Right Splice Identifier Number  
Tin Plating (Optional)

## GC761

FENCE POST CONNECTOR WITH SLOTTED BOLT

3" Weight  
~1½ lbs

Cu COPPER TIN PLATING

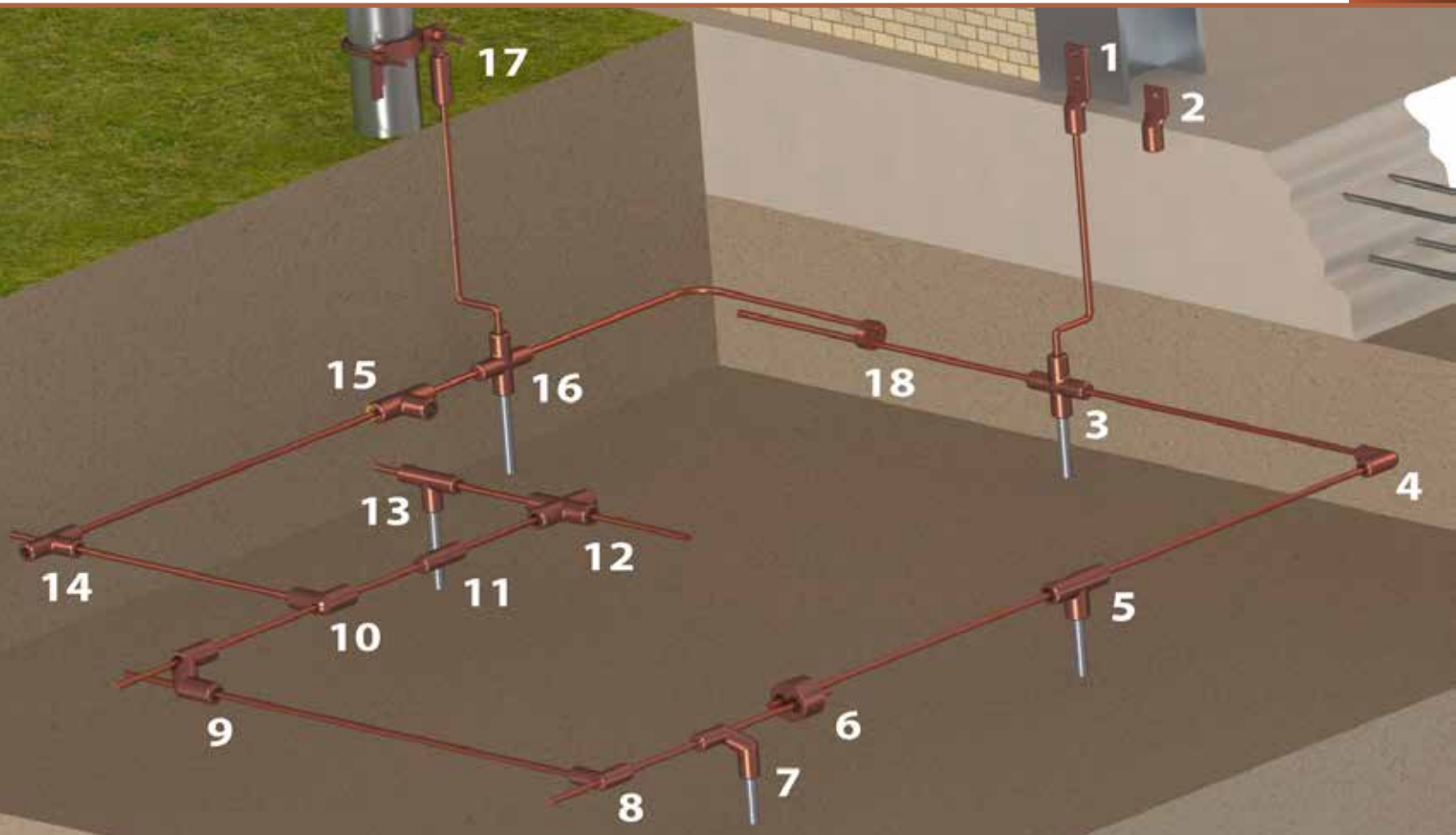


### ORDERING EXAMPLE

**GC761B 24-02G**

1-1/2" Fence Post Bracket to #2 AWG Slotted Bolt

Fence Post NPS Size  
Slotted Bolt Identifier Number (02G; 04G)



# GROUNDING CABLE AND ROD IDENTIFIER NUMBERS

- Any combination of wire and/or rod connector is available
- The largest designator determines the part OD
- Consult DMC Power for Metric Rods and Rebar identifier code

## Copper Cable (Ref. ASTM B8)

Bare Stranded Copper Size (AWG/kcmil) <i>Solid Wire</i>	Dead Soft Annealed Copperweld (Stranding/AWG)	Bare Stranded Copper Size (mm2) SI/Metric	Connector Identifier Number	Connector O.D. (±.015)	
#6 AWG	1/#6	10.8 & 12.6	06G	1.25	1.00 for parallel
#4 AWG	1/#4 & 3/#10	14.1, 16, 17.8 & 19.6	04G		2.00 for parallel
#2 AWG	1/#2, 3/#8, 3/#9 & 7/#10	22, 25, 27.6, 29.2, 34.4 & 35	02G		
1/0 AWG	3/#5, 3/#6 & 3/#7	48.3 & 50	002		
2/0 AWG	7/#8 & 7/#9	70 & 74.9			
3/0 Solid Wire	7/#7 & 7/#6	83.6, 93.3 & 95	003		
4/0 Solid Wire					
4/0 AWG	7/#5	96.8, 116 & 120 (Compacted Wires)	004		
250 MCM	19/#9	120 & 134	025	1.50	2.00 for parallel
#4 AWG	1/#4 & 3/#10	14.1, 16, 17.8 & 19.6	04G		2.25 to 2.75 for parallel
#2 AWG	1/#2, 3/#8, 3/#9 & 7/#10	22, 25, 27.6, 29.2, 34.4 & 35	02G		
1/0 AWG	3/#5, 3/#6 & 3/#7	38.2, 48.3 & 50	002		
2/0 AWG	7/#8 & 7/#9	70 & 74.9			
3/0 Solid Wire	7/#7 & 7/#6	83.6, 93.3 & 95	003		
4/0 Solid Wire					
4/0 AWG	7/#5	96.8, 116 & 120 (Compacted Wires)	004		
250 MCM	19/#9	120 & 134	025		
300 MCM	19/#8	145.8, 146, 150 & 185 (Cmpctd Wires)	030		
350 MCM	-	181.6, 182 & 185	035		
400 MCM	19/#7	194 & 240 (Compacted Wires)	040		
450 MCM	-	-	045		
500 MCM	19/#6	240	050		
500ROPELAY	19/#5	300	053		
-	7/#4	-	500		
750 MCM	-	-	075		
1000 MCM	-	500	100		

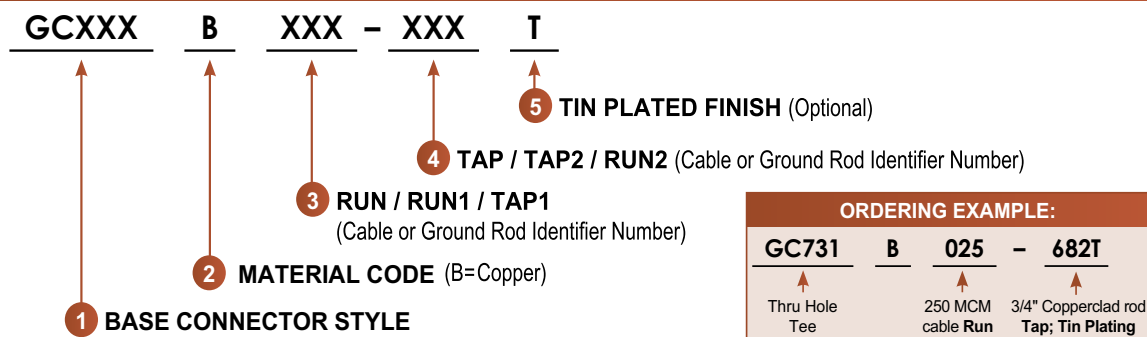
## Ground Rod

Size	Material Type	Connector Identifier Number	Connector O.D. (±.015)	
3/8"	#3 Steel rebar	003	1.25	2.00 for parallel
1/2"	Copperclad-plain & sectional with 1/2" thread	025		
1/2"	Steel & copperclad sectional with 9/16" thread & #4 Steel rebar	500		
5/8"	Copperclad-plain & sectional with 5/8" thread	562		
5/8"	Steel plain & #5 Steel rebar	625		
3/4"	Copperclad-plain & sectional with 3/4" thread	682		
3/8"	#3 Steel rebar	003	1.50	2.25 for parallel
1/2"	Copperclad-plain & sectional with 1/2" thread	025		
1/2"	Steel & copperclad sectional with 9/16" thread & #4 Steel rebar	500		
5/8"	Copperclad-plain & sectional with 5/8" thread	030		
5/8"	Steel plain & #5 Steel rebar	035		
3/4"	Copperclad-plain & sectional with 3/4" thread	040		
3/4"	Steel plain	750		
1"	Copperclad-plain & sectional with 1" thread	914		
1"	Steel plain	950		

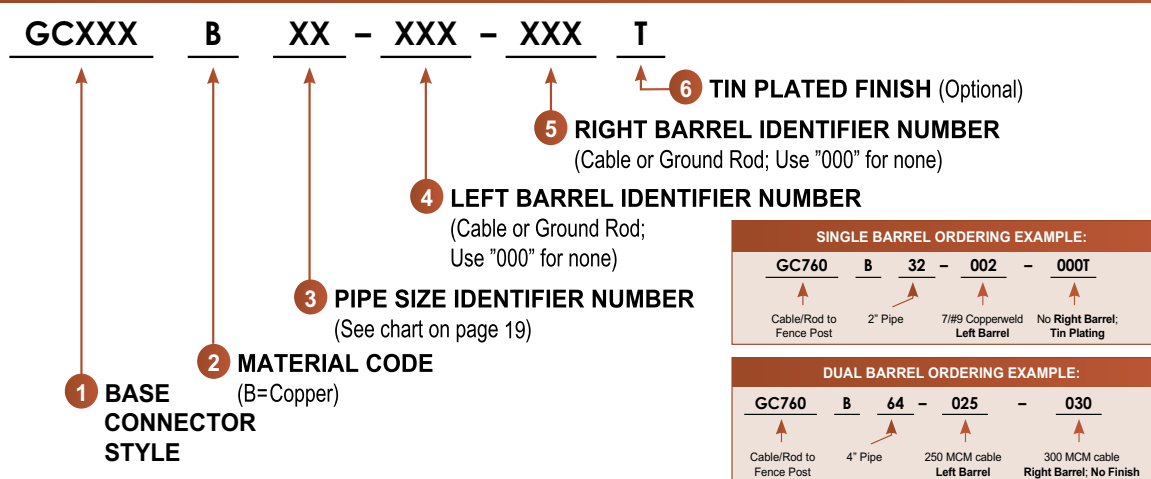


# GROUND CONNECTOR ORDERING NOMENCLATURE

## GROUNDING CONNECTORS



## FENCE POST CONNECTORS



## TO FIND THE CORRECT TOOLING:

1. Select required connector
2. Use the chart on page 38 to determine the Connector Identifier Number and Connector O.D. Use the larger O.D. for two different sized runs
3. Select the proper Head Assembly & Inspection Gauge based on the Connector O.D.

Connector Type	Connector Identifier #					Connector O.D.	Swage Tool Head Assembly	Inspection Gauge
Tee	02G	04G	06G	002	003	1.25	<b>DLT45CLHA03975</b>	GCIG200-03975
Splice	004	025	500	562	625			
Cross	025	500	682					
Elbow	02G	04G	002	003	004	1.50	<b>DLT45CLHA05565</b>	GCIG200-05565
Terminal	025	030	035	040	045			
Fence Connector	050	053	500	750	914			
Parallel	04G	06G				1.00	<b>DLT45CLHA02500</b>	DLT45CLIG02500
						1.50	<b>DLT45CLHA05565</b>	GCIG200-05565
						1.875	<b>DLT45CLHA08745</b>	GCIG200-08745
	002	003	004	025	035	2.00	<b>DLT45CLHA11130</b>	GCIG200-11130
	500	562	600	625				
	040	045	050	750	914	2.25	<b>DLT45CLHA15900</b>	GCIG200-15900
	950							

\*Exceptions exist for some cable size combinations; refer to individual model drawing to confirm tooling. DLT45- Head Assemblies use the DLT45MAPW0000 Power Unit