

SHEAR-LOK Copper Tap/Grounding Connector



Listed by Underwriters Laboratories Inc.,
 File No. E69905
 Grounding & Bonding Including Direct
 Burial



Certified by Canadian Standards
 Association

Description

2-10



AMP has developed the SHEAR-LOK Copper Tap/Grounding Connector for applications in the power utility industry where connectors are required to withstand mid-range (20 kA symmetrical RMS) magnitudes of fault current.

The SHEAR-LOK connectors utilize AMP Wedge Pressure Technology and controlled torque drive bolts to provide easily-applied and highly-reliable ground rod connections.

This family of connectors is ideal for Telco and CATV applications where connections must be made between conductor and rods, specifically in the range of #10, #6, #4, to both 5/8" and 3/4" copper clad galvanized rods.

- Wedge Pressure Technology
- Shear-head bolt—controlled torque
- Removable without conductor damage
- No special tools
- Application not inhibited by disfigured ground rod end
- Taps into existing ground conductors

Typical Applications

- Telco distribution, CATV grounds
- Pole grounds
- Industrial/residential service grounds

Selection Information

Connects Rod	To	Conductor	Part Number
5/8" Cu Clad Dia .562 [14.30]		1/0 Str.	83000-1 +
5/8" Cu Clad Dia .562 [14.30]		#6 Sol. or Strd. or #4 Sol. or Strd.	80408-2 + *
5/8" Galv. Dia .562 [15.88]		#6 Sol. or Strd.	80408-2 + *
3/4" Cu Clad Dia .682 [17.32]		#6 Sol. or Strd.	80408-3
3/4" Cu Clad Dia .682 [17.32]		#4 Sol. or Strd.	80408-4 + *
3/4" Galv. Dia .750 [19.05]		#6 Sol. or Strd.	80408-4 + *
3/4" Galv. Dia .750 [19.05]		#4 Sol. or Strd.	80408-5
3/4" Cu Clad Dia .682 [17.32]		1/0 Str.	80408-6 +
5/8" Cu Clad Dia .562 [14.30]		#6 Sol., #8 Sol., Strd. or #10 Sol., Strd.	80408-7

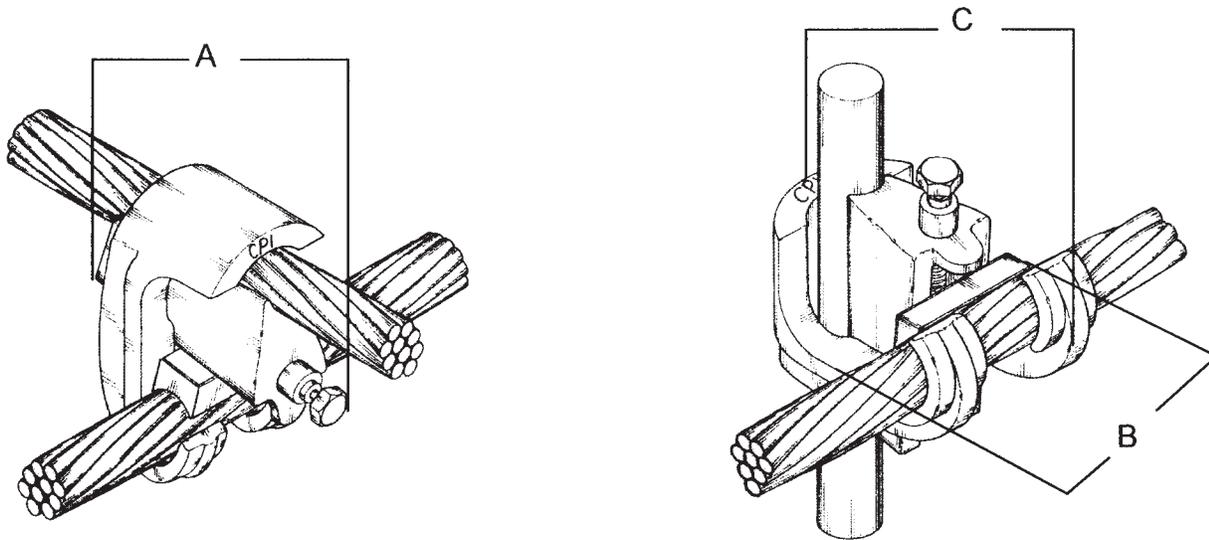
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*CSA Certified

Technical Document

Instruction Sheet [408-9921](#)

4/0 Series Ground Grid Connector Specifications



Dimensions		Materials	
A	3"	Drive Screw Mechanism	Silicon Bronze
B	2.13"	Interface	High-Conductivity 319 Contact Copper Casting
C	2.7"	Connector Body	High-Strength 415 Aluminum Bronze Casting

4/0 Series Ground Grid Connector Part Number List and Wire Selection Guide

Catalog Number	FROM	TO	Total Sum of Conductor's Diameters
	Wire Description	Wire Description	
900100	350 MCM (.681") 3/4" ROD (.680")	250 MCM (.575") 5/8" ROD (.556")	1.256" - 1.150"
	300 MCM (.630")	4/0 STR (.522")	
	250 CM (.575")	250 MCM (.575")	
900101	250 MCM (.575") 4/0 STR (.522")	250 MCM (.575") 5/8" ROD (.556") 4/0 STR (.522")	1.044" - 1.150"
	250 MCM (.575")	1/2" ROD (.472")	
900102	250 MCM (.575") 5/8" ROD (.556")	2/0 MCM (.419") 1/0 STR (.368")	.890" - .994"
	4/0 STR (.522")	2/0 STR (.368")	
900103	1/2" ROD (.472")		.736" - .838"
	2/0 STR (.419") 1/0 STR (.368")	2/0 STR (.419") 1/0 STR (.368")	
900104	5/8" ROD (.556") 1/2" ROD (.472") 4/0 STR (.522")	#2 STR (.292")	.706" - .825"
	250 MCM (.575") 4/0 STR (.522")	#4 STR (.232") #6 STR (.184")	
900105	#1 STR (.328")	#1 STR (.328")	.464" - .564"
	#4 STR (.232") #2 STR (.282")	#4 STR (.232") #2 STR (.282")	

Standard Package

Size	Quantity	Weight
Full Carton	40 Units	49 Pounds