

# 3M™ Tripolarized Wiremount Socket

.050" × .100" for .025" Pitch Cable

820 Series



- Tripolarization to mating socket
- 50 mil × 100 mil halves the connector length
- Hill-n-dale design provides a high performance IDC termination
- Insert-molded copper alloy contacts for superior strength and reliability
- Metal cover latch and cable strain relief for long term reliability
- Contacts: 20, 26, 36, 40, 50, 60, 68, 80 and 100
- RoHS\* compliant version available (RB plating suffix)

Date Modified: April 13, 2006

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## Physical

### Insulation

Material: Glass Filled Polyester (PBT)

Flammability: UL 94V-0

Color: Gray

**Contact Material:** Copper Alloy

### Plating:

Underplating: 100 μ" [ 2.54 μm ] Nickel

U-Slot: Matte Tin (RoHS compliant) or tin-lead (see ordering information)

Wiping Area: 30 μ" [ 0.76 μm ] Gold

**Wire Accommodation:** 30 AWG Solid, 30 AWG Pleated Foil, and 30 AWG Stranded

**Marking:** 3M Logo and Orientation Triangle

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## Electrical

**Current Rating:** 0.5 A

**Insulation Resistance:**  $> 1 \times 10^9 \Omega$  at 500 VDC

**Withstanding Voltage:** 500 Vrms at Sea Level

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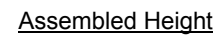
## Environmental

**Temperature Rating:** -55°C to +105°C

\* RoHS = Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment  
"RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's knowledge and belief based upon information provided by third party suppliers to 3M.

UL File No.: E68080

## 820 Series



Inch  
[mm]

Tolerance Unless Noted			
	.0	.00	.000
inch	±.1	±.01	±.005

[ ] Dimensions for Reference Only

1. This polarization slot does not exist on the 20 position socket.
2. Recommended to be mated to the .050" x .100" 81XXX series headers.

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Minimum 10%  
Post-Consumer Fiber

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