

# 3M™ Tripolarized Wiremount Socket

.050" × .100" for .025" Pitch Cable

820 Series



- Tripolarized for robust alignment when mating to 810 Series Header
- 50 mil × 100 mil halves the connector length vs. traditional 100 mil x 100 mil products
- Hill-n-dale design provides a high performance IDC termination and improved signal integrity vs. planar terminated connectors
- Beryllium Copper alloy contacts for superior strength and reliability
- Metal cover latch for positive cover retention and long term reliability
- Metal strain relief for increased reliability and durability
- Contacts: 20, 26, 36, 40, 50, 60, 68, 80 and 100
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of [www.3Mconnector.com](http://www.3Mconnector.com) for compliance information

Date Modified: April 20, 2011

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## Physical

### Insulation:

Material: Glass Filled Polyester (PBT)

Flammability: UL 94V-0

Color: Gray

**Contact Material:** Beryllium Copper Alloy

### Plating:

Underplating: 100 μ" [2.54 mm] Nickel

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

Wiping Area: 30 μ" [0.76 mm] Gold

**Wire Accommodation** 30 AWG Solid, 30 AWG Pleated Foil, and 30 AWG Stranded, PVC, TPE, FEP

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

**Mating Compatibility:** 810 Series (TS-0253)

## Electrical

**Current Rating:** 3.00 A, 1 Contact Powered  
2.00 A, 4 Contacts Powered  
0.75 A, All Contacts Powered

Rating Conditions: EIA-364-070 Method 2, 30 degrees C maximum temperature rise, 20% derated. Reference appropriate 3M Product Specification for detailed current derating curves.

**Insulation Resistance:**  $> 1 \times 10^9 \Omega$  at 500 V<sub>DC</sub>

**Withstanding Voltage:** 500 V<sub>RMS</sub> at Sea Level

## Environmental

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

UL File No.: E68080

**3M**

Electronic Solutions Division  
Interconnect Solutions  
<http://www.3Mconnector.com>

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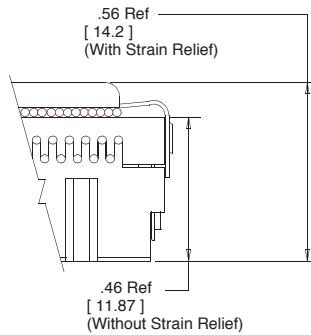
# 3M™ Tripolarized Wiremount Socket

.050" x .100" for .025" Pitch Cable

820 Series



| Contact Quantity | Dimensions         |                    |
|------------------|--------------------|--------------------|
|                  | A                  | B                  |
| 020              | .755<br>[ 19.18 ]  | .670<br>[ 17.02 ]  |
| 026              | .905<br>[ 22.99 ]  | .820<br>[ 17.02 ]  |
| 036              | 1.155<br>[ 29.34 ] | 1.070<br>[ 27.18 ] |
| 040              | 1.255<br>[ 31.88 ] | 1.170<br>[ 29.72 ] |
| 050              | 1.505<br>[ 38.23 ] | 1.420<br>[ 36.07 ] |
| 060              | 1.755<br>[ 44.58 ] | 1.670<br>[ 42.42 ] |
| 068              | 1.955<br>[ 49.66 ] | 1.870<br>[ 47.50 ] |
| 080              | 2.255<br>[ 57.28 ] | 2.170<br>[ 55.12 ] |
| 100              | 2.755<br>[ 69.98 ] | 2.670<br>[ 67.82 ] |



Assembled Height



Inch  
[mm]

| Tolerance Unless Noted |     |      |       |
|------------------------|-----|------|-------|
|                        | .0  | .00  | .000  |
| Inch                   | ±.1 | ±.01 | ±.005 |

[ ] Dimensions for Reference Only

**Notes:**

1. This polarization slot does not exist on the 20 position socket.
2. Recommended to be mated to the .050" X .100" 810XX series headers.

## Ordering Information

**Socket**  
**82XXX - 600X - XX**

Contact Quantity  
(See Table 1)

Strain Relief:  
0 = No Strain Relief  
6 = With Strain Relief

Plating suffix:  
blank = tin lead U slots (App. E3 & C2 Apply)  
RB = matte Sn U slots (App. E1 & C1 Apply) [Standard]

**Strain Relief**  
(If Ordered Separately)

**3858-XXX**

Contact Quantity:  
See Table

Application tools: 3M™ Press 3640 (or equivalent), 3M™ Locator Plate 3443-113, 3M™ Platen 3442-45.

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RIA-2217B-E

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