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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# 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



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

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**800-225-5373**

# 3M™ Tripolarized Wiremount Socket

.050" × .100" for .025" Pitch Cable

820 Series

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

**Assembled Height**

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

**Strain Relief**  
 (If Ordered Separately)

**3858-XXX**

Contact Quantity:  
 See Table

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

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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