

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 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_{DC}

Withstanding Voltage: 500 V_{RMS} at Sea Level

Environmental

Temperature Rating: -55°C to +105°C

UL File No.: E68080

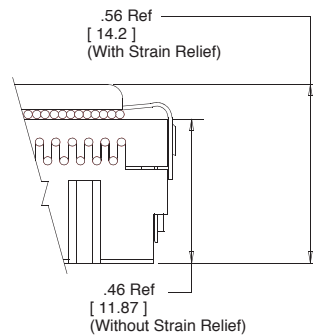
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| Contact Quantity | Dimensions | |
|------------------|-----------------|-----------------|
| | A | B |
| 020 | .755 [19.18] | .670 [17.02] |
| 026 | .905 [22.99] | .820 [17.02] |
| 036 | 1.155 [29.34] | 1.070 [27.18] |
| 040 | 1.255 [31.88] | 1.170 [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



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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