

# 3M™ Wiremount Plug

.100" × .100" Connector for .050" Pitch Cable

4600 Series



- Shrouded to protect against physical and chemical pin damage
- Open or closed end covers available
- Optional ejector latches
- Accepts flat cable or discrete wire
- Military (with 3518 polarizing key) and centerbump polarization available
- Optional mounting flanges
- Optional metal strain relief
- RoHS Compliant. See the Regulatory Information Appendix (RIA) in the "RoHS Compliance" section of [www.3Mconnectors.com](http://www.3Mconnectors.com) for compliance information (RIA E1 & C1 apply)

Date Modified: March 21, 2012

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## Physical

### Insulator:

Material: Glass Filled Polyester (PBT)

Flammability: UL 94V-0

Color: Gray

### Contact:

Material: Copper Alloy

### Plating:

Underplating and U-Slot: 100 μ" [ 2.54 μm ] Nickel

Wiping Area: 30 μ" [ 0.76 μm ] Gold

Wire Accommodation: 26 and 28 AWG Solid and Stranded

**Marking:** 3M Logo, Part Identification Number, and Contact Position Numbers

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## Electrical

**Current Rating:** 1 A

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

**Withstanding Voltage:** 1,000 V<sub>RMS</sub> at Sea Level

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## Environmental

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

UL File No.: E68080

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**Slotted Mounting Flange**  
46XX-XXX0



#4-40 x .14 [3.6] Long  
Threaded Insert  
Torque Spec: 3-5 in/lb

**Threaded Mounting Flange**  
46XX-XXX5  
**Detail A**

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

[ ] Dimensions for Reference Only



## Ordering Information

### 46XX - XXXX



### Strain Relief (Order Separately) 3448 - 46XX

Assembly tools: 3M™ Press, 3640 (or equivalent) ; 3M™ Locator Plate, 3443-96; 3M™ Platen, 3442-9

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# 3M™ Wiremount Plug

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| Pin Qty | Dimensions   |             |             |             |             |             | Polarizing Notches Provided |
|---------|--------------|-------------|-------------|-------------|-------------|-------------|-----------------------------|
|         | A            | A'          | B           | C           | D           | E           |                             |
| 10      | 1.50 [38.1]  | 0.90 [22.9] | 0.71 [18.0] | 1.20 [30.5] | 0.77 [19.6] | 0.85 [21.6] | B or C (See Note 1)         |
| 14      | 1.70 [43.2]  | 1.10 [27.9] | 0.91 [23.1] | 1.40 [35.6] | 0.97 [24.6] | 1.05 [26.7] | BC                          |
| 16      | 1.80 [45.7]  | 1.20 [30.5] | 1.01 [25.7] | 1.50 [38.1] | 1.07 [27.2] | 1.15 [29.2] | ABC                         |
| 20      | 2.00 [50.8]  | 1.40 [35.6] | 1.21 [30.7] | 1.70 [43.2] | 1.27 [32.3] | 1.35 [34.3] | ABC                         |
| 24      | 2.20 [55.9]  | 1.60 [40.6] | 1.41 [35.8] | 1.90 [48.3] | 1.47 [37.3] | 1.55 [41.9] | ABC                         |
| 26      | 2.30 [58.4]  | 1.70 [43.2] | 1.51 [38.4] | 2.00 [50.8] | 1.57 [39.9] | 1.65 [46.9] | ABC                         |
| 30      | 2.50 [63.5]  | 1.90 [48.3] | 1.71 [43.4] | 2.20 [55.9] | 1.77 [45.0] | 1.85 [47.1] | ABC                         |
| 34      | 2.70 [68.6]  | 2.10 [53.3] | 1.91 [48.5] | 2.40 [61.0] | 1.97 [50.0] | 2.05 [52.1] | ABC                         |
| 36      | 2.80 [71.1]  | 2.20 [55.9] | 2.01 [51.1] | 2.50 [63.5] | 2.07 [52.6] | 2.15 [54.6] | ABC                         |
| 40      | 3.00 [76.2]  | 2.40 [61.0] | 2.21 [56.1] | 2.70 [68.6] | 2.27 [57.7] | 2.35 [59.7] | ABC                         |
| 50      | 3.50 [88.9]  | 2.90 [73.7] | 2.71 [68.8] | 3.20 [81.3] | 2.77 [70.4] | 2.85 [72.4] | ABC                         |
| 60      | 4.00 [101.6] | 3.40 [86.4] | 3.21 [81.5] | 3.70 [94.0] | 3.27 [83.1] | 3.35 [85.1] | ABC                         |
| 64      | 4.20 [106.7] | 3.60 [91.4] | 3.41 [86.6] | 3.90 [99.1] | 3.47 [88.1] | 3.55 [90.2] | ABC                         |

| Ejector/Latch Option | Part Number | Dimensions   |              |              |            |
|----------------------|-------------|--------------|--------------|--------------|------------|
|                      |             | F            | G            | H            | I          |
| Short                | 3505-16     | .335 [8.51]  | .726 [18.44] | 0.92 [23.4]  | .41 [10.4] |
| Long                 | 3505-17     | .484 [12.29] | .875 [22.23] | 1.07 [27.2]  | .56 [14.2] |
| Universal            | 3505-21     | .484 [12.29] | .809 [20.55] | 1.01 [25.65] | .56 [14.2] |



Notes:  
The distance from the strain relief to the connector is equal to .04 [1.0] plus the cable thickness.

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# 3M™ Wiremount Plug

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

4600 Series

**Table 3**

| Contact Quantity | 3M Part Number Series | Dimension A     | Dimension B     |
|------------------|-----------------------|-----------------|-----------------|
| 10               | 4610                  | 1.200 [ 30.48 ] | 0.945 [ 24.00 ] |
| 14               | 4614                  | 1.400 [ 35.56 ] | 1.145 [ 29.08 ] |
| 16               | 4616                  | 1.500 [ 38.10 ] | 1.245 [ 31.62 ] |
| 20               | 4620                  | 1.700 [ 43.18 ] | 1.445 [ 36.70 ] |
| 24               | 4624                  | 1.900 [ 48.26 ] | 1.645 [ 41.78 ] |
| 26               | 4626                  | 2.000 [ 50.80 ] | 1.745 [ 44.32 ] |
| 30               | 4630                  | 2.200 [ 55.88 ] | 1.945 [ 49.40 ] |
| 34               | 4634                  | 2.400 [ 60.96 ] | 2.145 [ 54.48 ] |
| 36               | 4636                  | 2.500 [ 63.50 ] | 2.245 [ 57.02 ] |
| 40               | 4640                  | 2.700 [ 68.58 ] | 2.445 [ 62.10 ] |
| 50               | 4650                  | 3.200 [ 81.28 ] | 2.945 [ 74.80 ] |
| 60               | 4660                  | 3.700 [ 93.98 ] | 3.445 [ 87.50 ] |
| 64               | 4664                  | 3.900 [ 99.06 ] | 3.645 [ 92.58 ] |



**Rear Mount Panel Cutout**

**Notes:**

1. Accepts #4 pan head machine screw.
2. For a rear mount plug connector with Ejector/Latches the recommended maximum panel thickness is .125 [ 3.18 ].
3. Without polarizing tabs .340 [ 8.64 ].

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