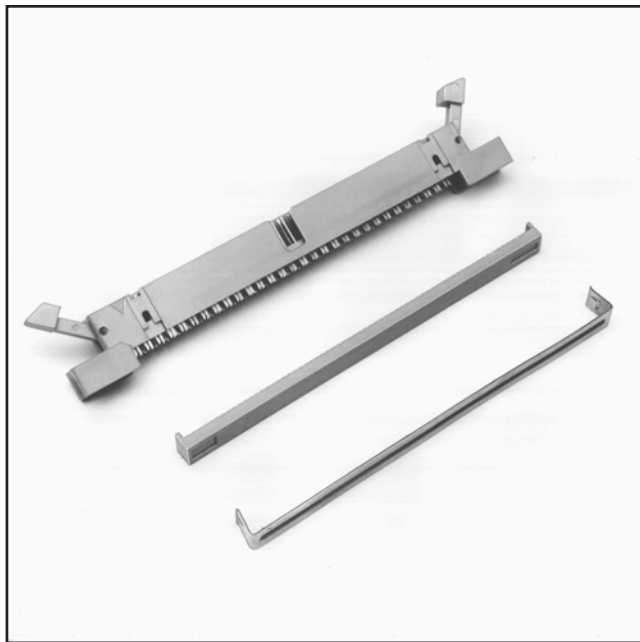


# 3M™ Wiremount Plug

.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

TS-0086-C  
Sheet 1 of 4

## Physical

### Insulator:

Material: Glass Filled Polyester (PBT)

Flammability: UL 94V-0

Color: Gray

### Contact:

Material: Copper Alloy

### Plating:

Underplating and U-Slot: 100  $\mu$ " [ 2.54  $\mu$ m ] Nickel

Wiping Area: 30  $\mu$ " [ 0.76  $\mu$ m ] Gold

Wire Accommodation: 26 and 28 AWG Solid and Stranded

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

## 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

## Environmental

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

UL File No.: E68080



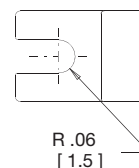
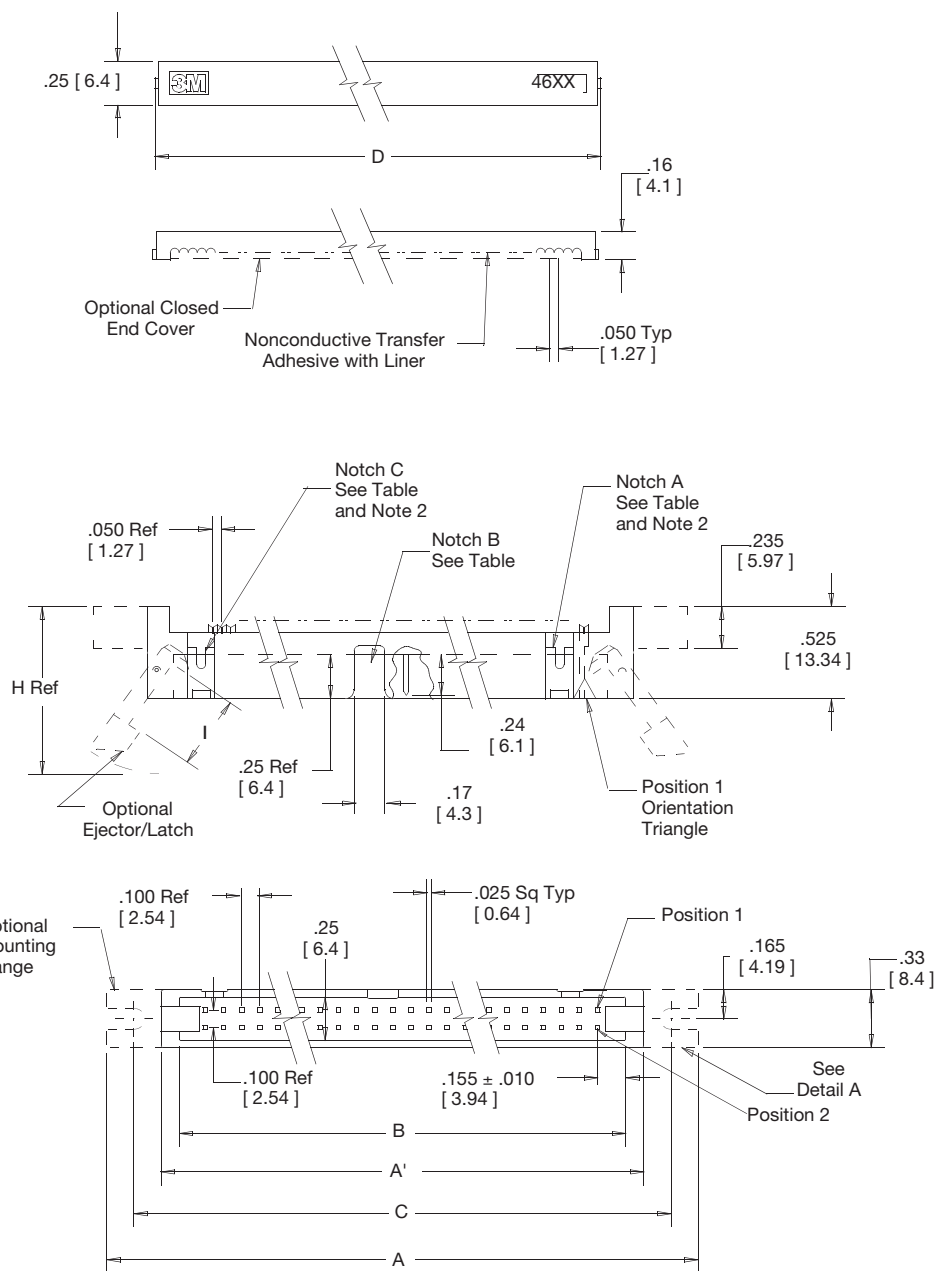
Electronic Solutions Division  
Interconnect Solutions  
<http://www.3Mconnectors.com>

3M is a trademark of 3M Company.  
For technical, sales or ordering information call  
**800-225-5373**

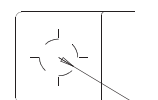
# 3M™ Wiremount Plug

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

4600 Series



**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**

Inch  
[mm]

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

[ ] Dimensions for Reference Only



## Ordering Information

### 46XX - XXXX

| Contact Quantity: | Cover Style:                                            | Ejector/Latch System:                 | Polarization:                  | Body Style:                                                                         | Contact Quantity: |
|-------------------|---------------------------------------------------------|---------------------------------------|--------------------------------|-------------------------------------------------------------------------------------|-------------------|
| See Table         | <b>6 = Open End (Daisy Chaining/Bussing - Standard)</b> | <b>0 = None (Standard)</b>            | 0 = for Contact Qty 14 to 64   | <b>0 = w/Mounting Flange (Standard)</b><br>(RIA E1 & C1 Apply)                      | See Table         |
|                   | 7 = Closed End (End Cable Termination)                  | 2 = Short Ejector Latch (3505-16)     | 0 = for Notch C on 10 Position | 1 = w/o Mounting Flange (RIA E1 & C1 Apply)                                         |                   |
|                   |                                                         | 3 = Long Ejector Latch (3505-17)      | 5 = for Notch B on 10 Position | 5 = Mounting Flanges w/ Threaded Insert from Socket mating side (RIA E5 & C3 Apply) |                   |
|                   |                                                         | 7 = Universal Ejector Latch (3505-21) |                                |                                                                                     |                   |

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

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

TS-0086-C  
Sheet 2 of 4



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

3M is a trademark of 3M Company.  
For technical, sales or ordering information call  
**800-225-5373**

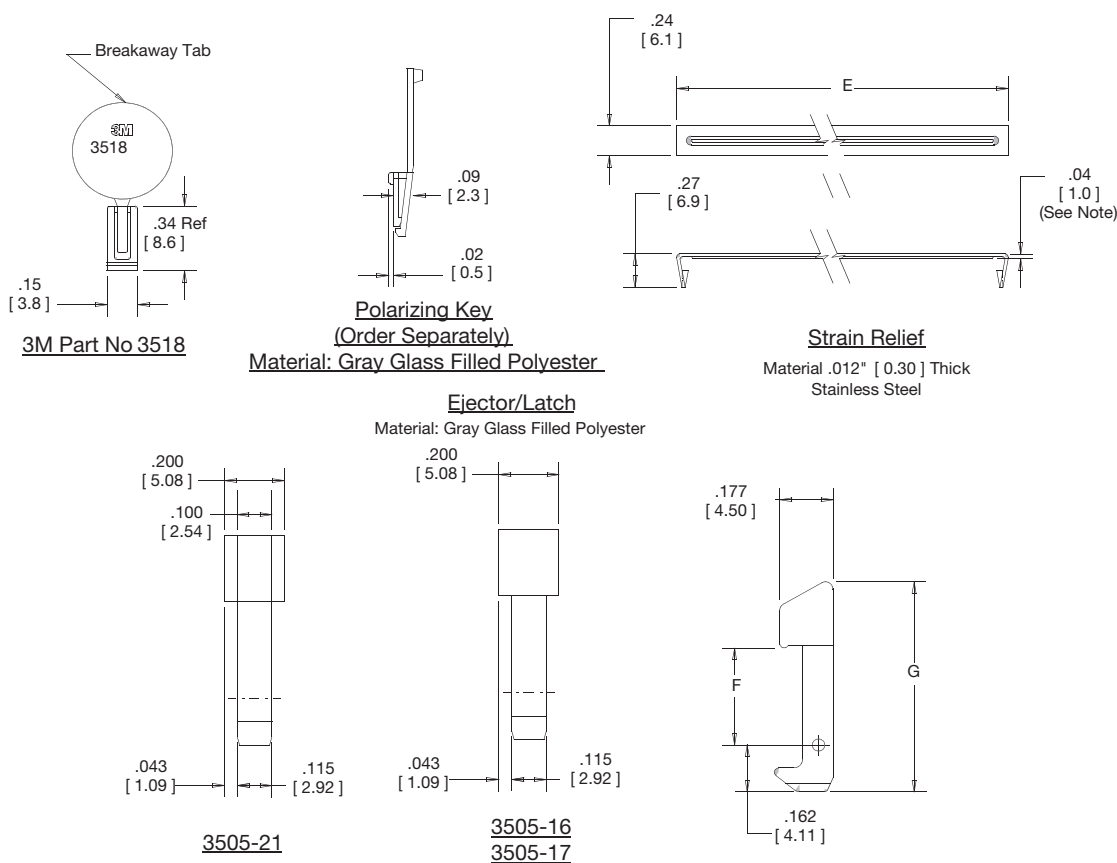
# 3M™ Wiremount Plug

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

4600 Series

| Table 1 |              |             |             |             |             |             |                             |
|---------|--------------|-------------|-------------|-------------|-------------|-------------|-----------------------------|
| 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                         |

| Table 2              |             |              |              |              |            |
|----------------------|-------------|--------------|--------------|--------------|------------|
| 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.

TS-0086-C  
Sheet 3 of 4



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

3M is a trademark of 3M Company.  
For technical, sales or ordering information call  
**800-225-5373**

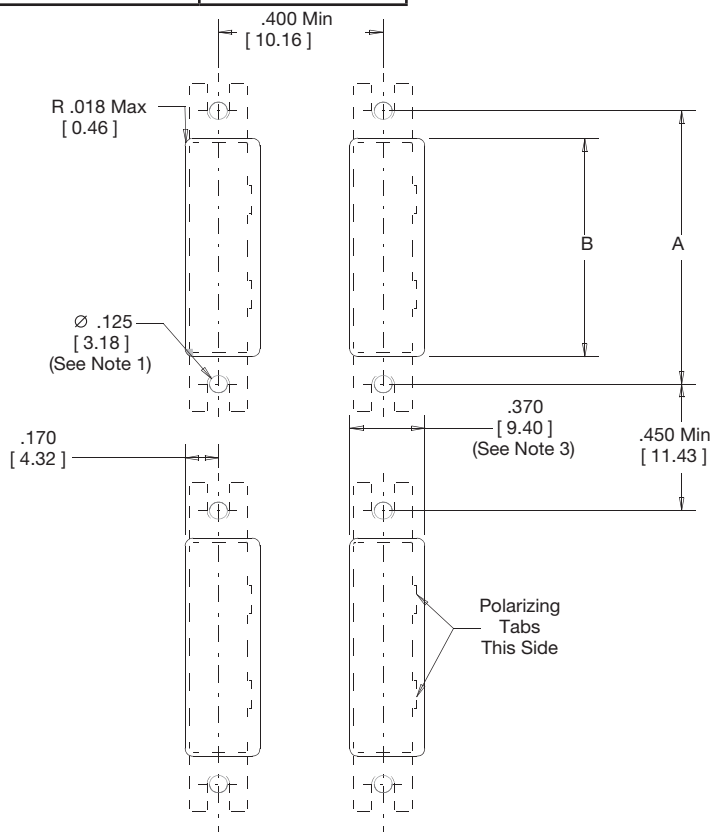
# 3M™ Wiremount Plug

.100" × .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 ].

TS-0086-C  
Sheet 4 of 4



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

3M is a trademark of 3M Company.  
For technical, sales or ordering information call  
**800-225-5373**

3M is a trademark of 3M Company.

#### **Important Notice**

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

#### **Warranty; Limited Remedy; Limited Liability.**

This product will be free from defects in material and manufacture for a period of one (1) year from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**



#### **3M Electronics Solutions Division**

6801 River Place Blvd.  
Austin, TX 78726-9000  
U.S.A.  
1-800-225-5373  
[www.3Mconnectors.com](http://www.3Mconnectors.com)

Please recycle. Printed in USA.  
© 3M 2012. All rights reserved.  
RIA-2217B-E