

# .100" × .100" Plug

[查询"4610-6301"供应商](#)

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

Date Modified: February 19, 1999

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## Physical

### Insulation

Material: Glass Filled Polyester (PBT)  
Flammability: UL 94V-0  
Color: Gray

### Contact

Material: Copper Alloy  
Plating  
Underplate & U-Slot: 100  $\mu$ " (2.54  $\mu$ m) Nickel — QQ-N-290, Class 2  
Wiping Area: 30  $\mu$ " (0.76  $\mu$ m) Gold — MIL-G-45204, Type II, Grade C  
**Wire Accommodation:** 26 & 28 AWG Solid or 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 Vdc  
**Withstanding Voltage:** 1000 Vrms at Sea Level

## Environmental

**Temperature Rating:**  $-55^\circ\text{C}$  to  $+105^\circ\text{C}$

UL File No.: E68080

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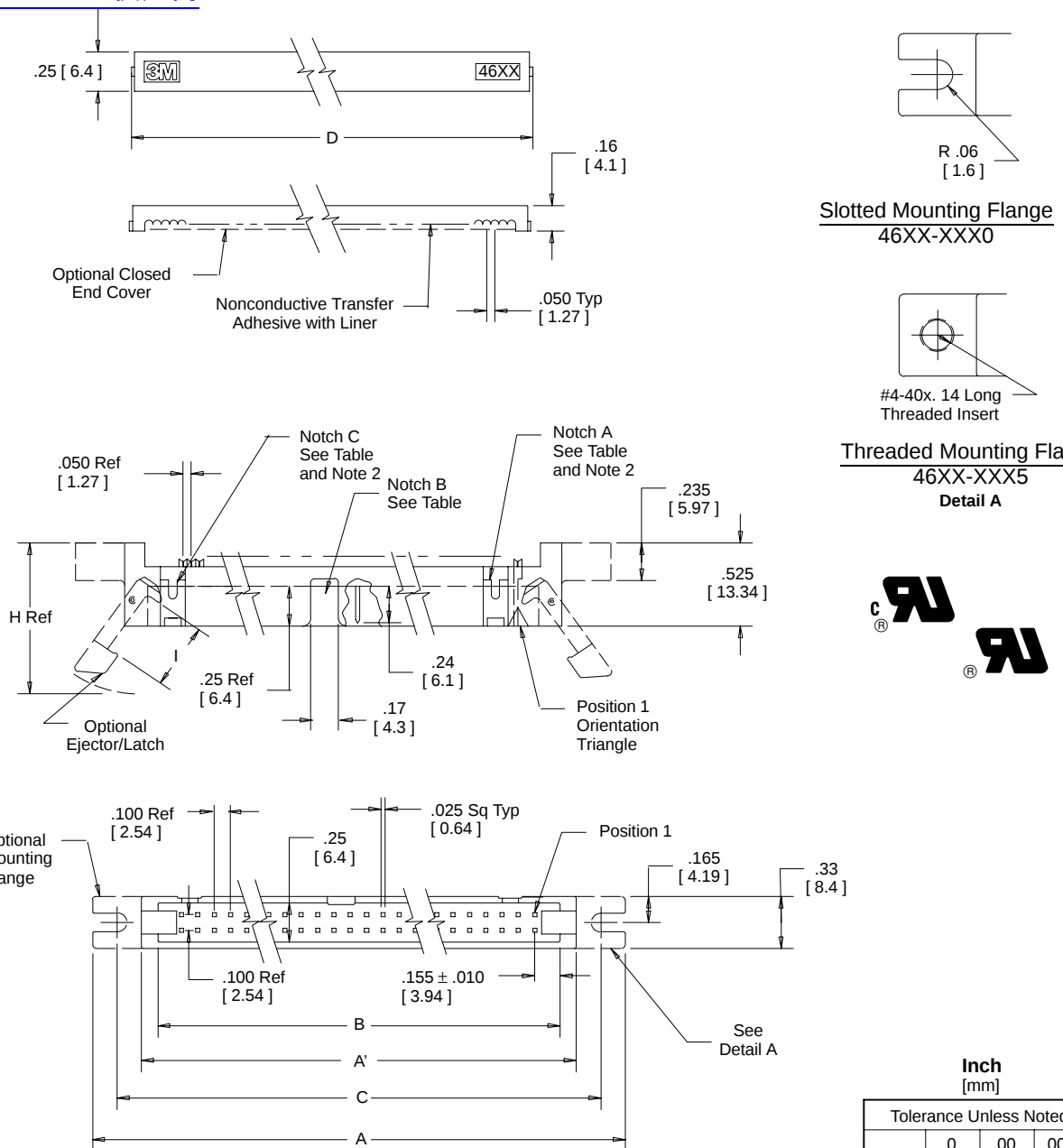
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## Notes:

1. Polarization of 10 position product can be either: Center notch: B-4610-XX5X or the Left notch "C"-4610-XX0X.
2. Notches A and C will accommodate 3M Polarization keys (Part Number 3518 or M3518).

## Ordering Information

**46XX-XXXX**

Contact Quantity:  
See Table

Cover Style  
6 = Open End (Daisy Chaining/Bussing)  
7 = Closed End (End Cable Termination)

Ejector/Latch System  
0 = None  
2 = Short Ejector Latch (3505-16)  
3 = Long Ejector Latch (3505-17)  
7 = Universal Ejector Latch (3505-21)

Polarization  
0 = for Contact Qty 14 to 64  
0 = for Notch C on 10 Position  
5 = for Notch B on 10 Position

Body Style  
0 = w/ Mounting Flange  
1 = w/o Mounting Flange  
5 = Mounting Flanges w/ Threaded Insert from Socket mating side

Contact Quantity:  
See Table

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

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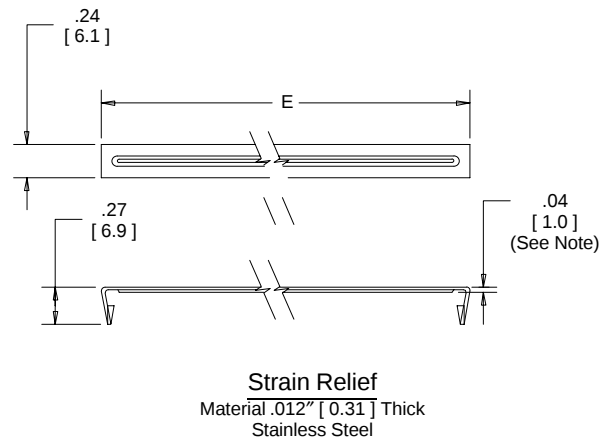
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| Table 1          |                |               |               |               |               |               |                             |
|------------------|----------------|---------------|---------------|---------------|---------------|---------------|-----------------------------|
| Contact Quantity | 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 [ 21.7 ] | 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 [ 26.8 ] | BC                          |
| 16               | 1.80 [ 45.7 ]  | 1.20 [ 30.5 ] | 1.01 [ 25.7 ] | 1.50 [ 38.1 ] | 1.07 [ 27.2 ] | 1.15 [ 29.3 ] | ABC                         |
| 20               | 2.00 [ 50.8 ]  | 1.40 [ 35.5 ] | 1.21 [ 30.7 ] | 1.70 [ 43.2 ] | 1.27 [ 32.3 ] | 1.35 [ 34.4 ] | ABC                         |
| 24               | 2.20 [ 55.9 ]  | 1.60 [ 40.6 ] | 1.41 [ 35.8 ] | 1.90 [ 48.3 ] | 1.47 [ 37.3 ] | 1.55 [ 39.5 ] | ABC                         |
| 26               | 2.30 [ 58.4 ]  | 1.70 [ 43.2 ] | 1.51 [ 38.4 ] | 2.00 [ 50.8 ] | 1.57 [ 39.9 ] | 1.65 [ 42.0 ] | 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 [ 52.2 ] | ABC                         |
| 36               | 2.80 [ 71.1 ]  | 2.20 [ 55.9 ] | 2.01 [ 51.1 ] | 2.50 [ 63.5 ] | 2.07 [ 52.6 ] | 2.15 [ 54.7 ] | ABC                         |
| 40               | 3.00 [ 76.2 ]  | 2.40 [ 61.0 ] | 2.21 [ 56.1 ] | 2.70 [ 68.6 ] | 2.27 [ 57.7 ] | 2.35 [ 59.8 ] | ABC                         |
| 50               | 3.50 [ 88.9 ]  | 2.90 [ 73.7 ] | 2.71 [ 68.8 ] | 3.20 [ 81.3 ] | 2.77 [ 70.4 ] | 2.85 [ 72.5 ] | 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 | Table 2        |                |                |              |
|----------------------|-------------|----------------|----------------|----------------|--------------|
|                      |             | 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 ] |



**Ejector/Latch**  
Material: Gray Glass Filled Polyester

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

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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 [ 3.16 ].
3. Without polarizing tabs .340 [ 8.64 ].

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