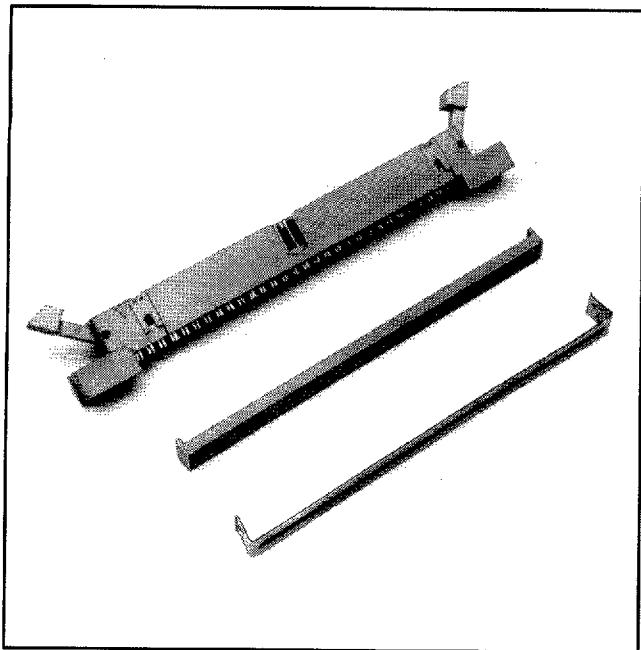


.100" x .100" Plug

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

91

TS-0086-07
Sheet 1 of 4

Physical

Insulation

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

Contact

Material: Beryllium Copper (C172)
Plating
Underplate & U-Slot: 50 μ " (1.27 μ m) Nickel — QQ-N-290, Class 2
Wiping Area: 30 μ " (0.76 μ m) Gold — MIL-G-45204, Type II, Grade C
Wire Accomodation: 26 & 28 AWG Solid or Stranded, 30 AWG Solid
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

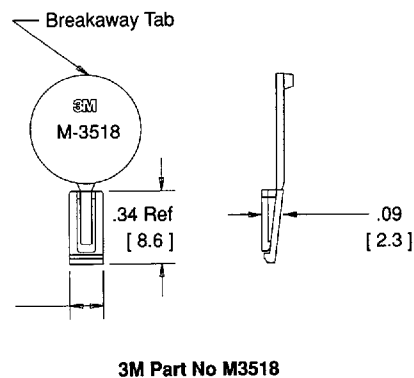
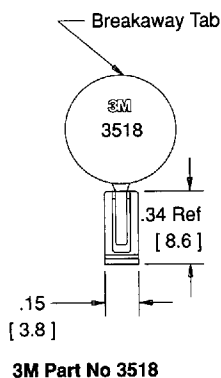
Temperature Rating: -55°C to $+105^\circ\text{C}$

UL File No.: E68080
CSA File No.: LR 40791

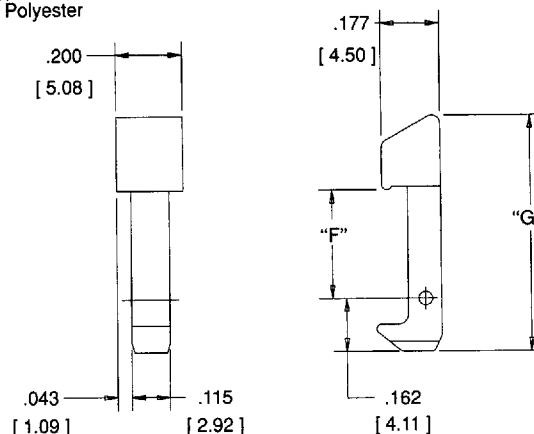
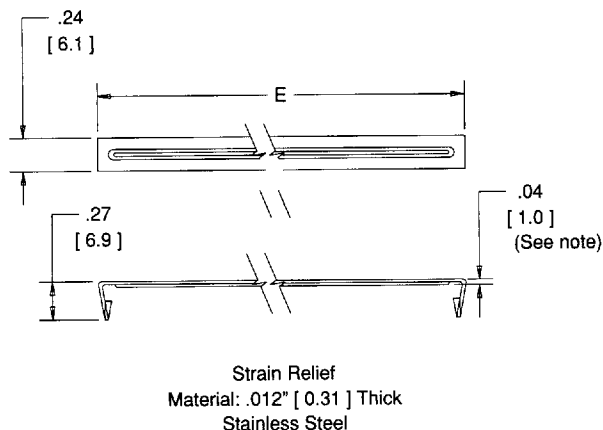
3M Electronic Products Division

6801 River Place Blvd.
Austin, TX 78726-9000

9005413 0000254 022



Polarizing Key
(Order Separately)
Material: Gray Glass Filled Polyester



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

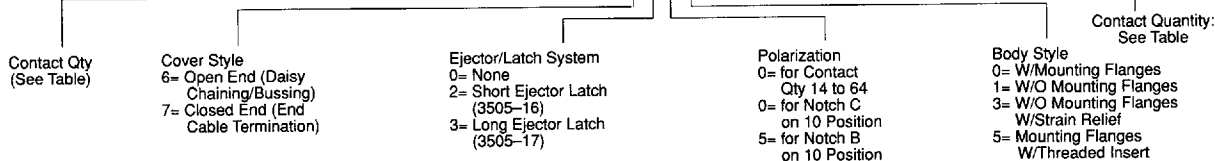
Table 2					
Ejector/Latch Option	Part Number	Dim F	Dim G	Dim H	Dim I
Short	3505-16	.335 [8.51]	.726 [18.44]	.92 [23.4]	.41 [10.4]
Long	3505-17	.484 [12.29]	.875 [22.23]	1.07 [27.2]	.56 [14.2]

Contact Quantity	Dim A	Dim A'	Dim B	Dim C	Dim D	Dim E	Polarizing Notches Provided
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]	B C
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]	A B C
20	2.00 [50.8]	1.40 [35.6]	1.21 [30.7]	1.70 [43.2]	1.27 [32.3]	1.35 [34.4]	A B C
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]	A B C
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]	A B C
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]	A B C
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]	A B C
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]	A B C
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]	A B C
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]	A B C
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]	A B C
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]	A B C

Ordering Information

46XX - XXXX

Strain Relief
(Order Separately)
3448 - 46XX

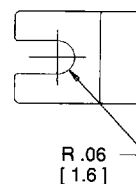
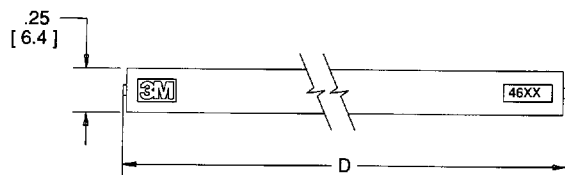


.100" x .100" Plug

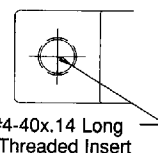
4600 Series

Sheet 3 of 4

TS-0086-07

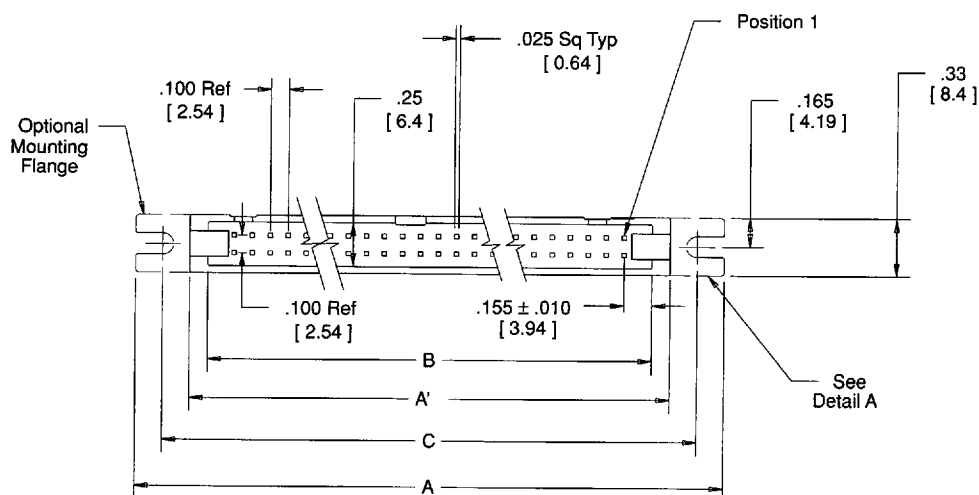
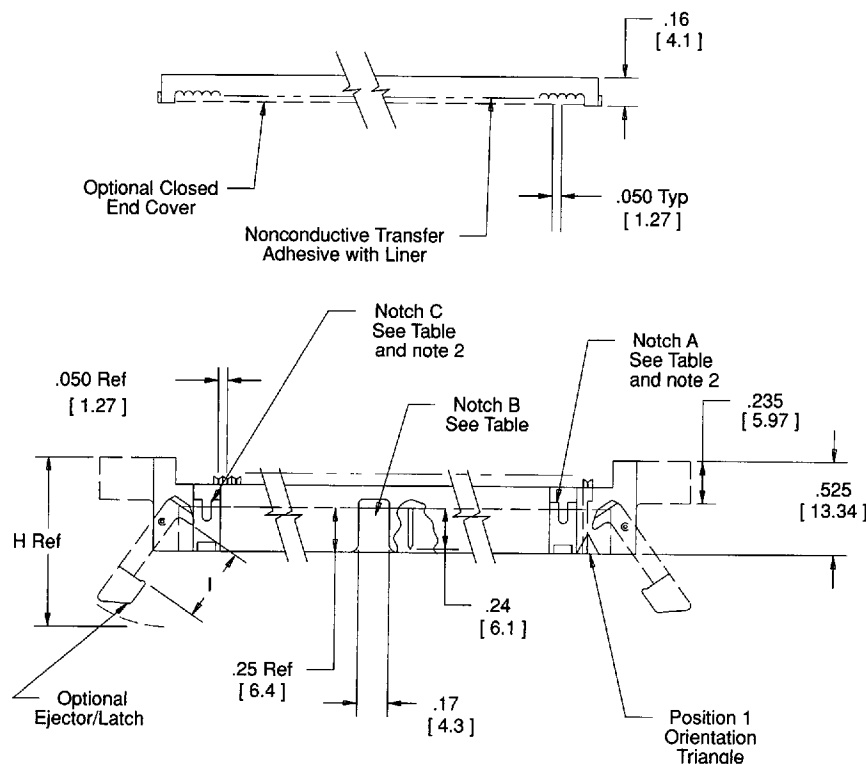


**Slotted Mounting Flange
46XX-XXX0**



**Threaded Mounting Flange
46XX-XXX5**

Detail A



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).

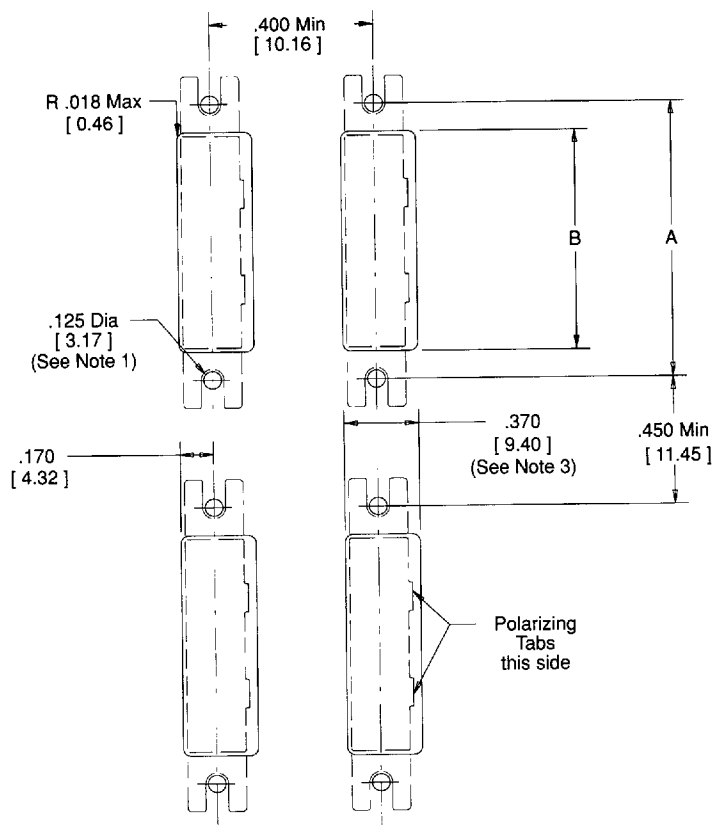
**Inch
[mm]**

Tolerance Unless Noted			
	.0	.00	.000
Inch	± .1	± .01	± .005

[] Dimensions for
Reference Only

Table 3

Contact Quantity	3M Part Number Series	Dim A	Dim B
10	4610	1.200 [30.48]	.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" [3.16mm].
3. Without polarizing tabs .340 [8.64].

Inch
[mm]

Tolerance Unless Noted			
	.0	.00	.000
Inch	± .1	± .01	± .005

[] Dimensions for Reference Only

Sheet 4 of 4

TS-0086-07