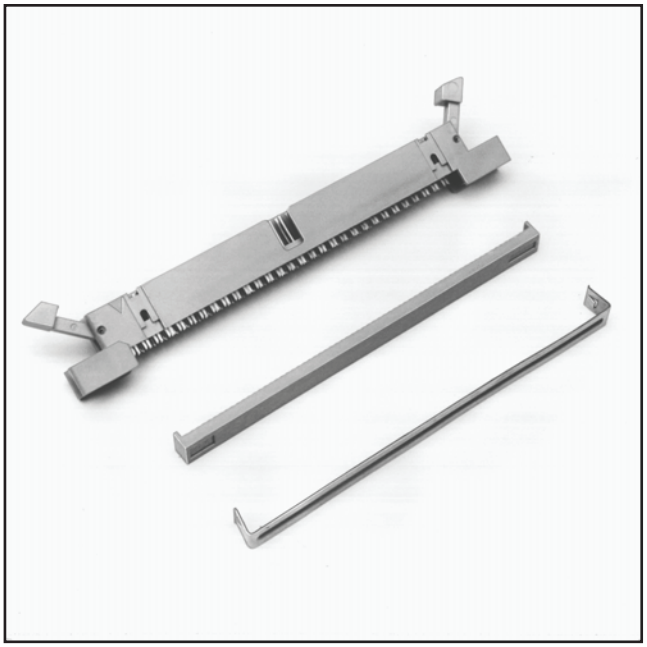
3M™ Wiremount Plug

.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 for compliance information (RIA E1 & C1 apply)

Date Modified: March 21, 2012

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

Electrical

Current Rating:	1 A
Insulation Resistance:	$> 1 \times 10^9\ \Omega$ at 500 V_{DC}
Withstanding Voltage:	1,000 V_{RMS} at Sea Level

Environmental

Temperature Rating:	-55ºC to +105ºC

UL File No.: E68080

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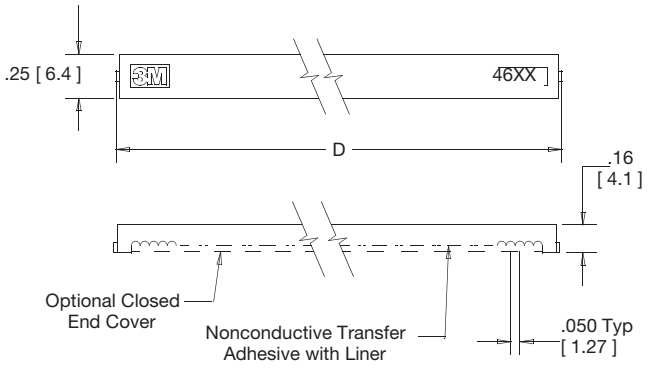
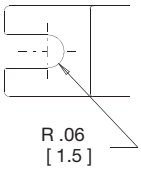
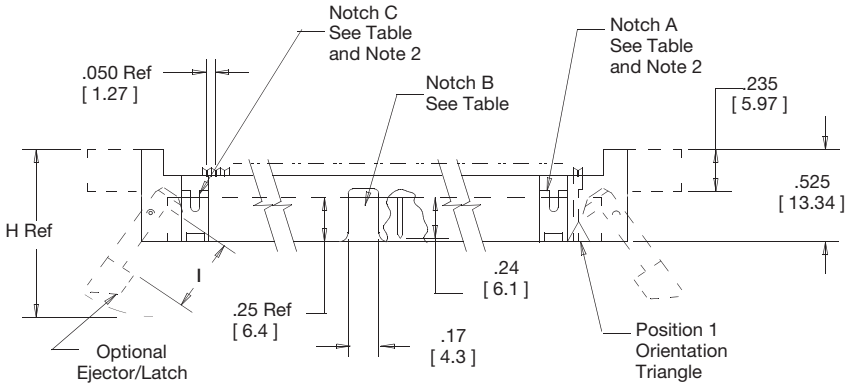
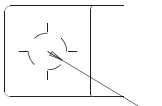


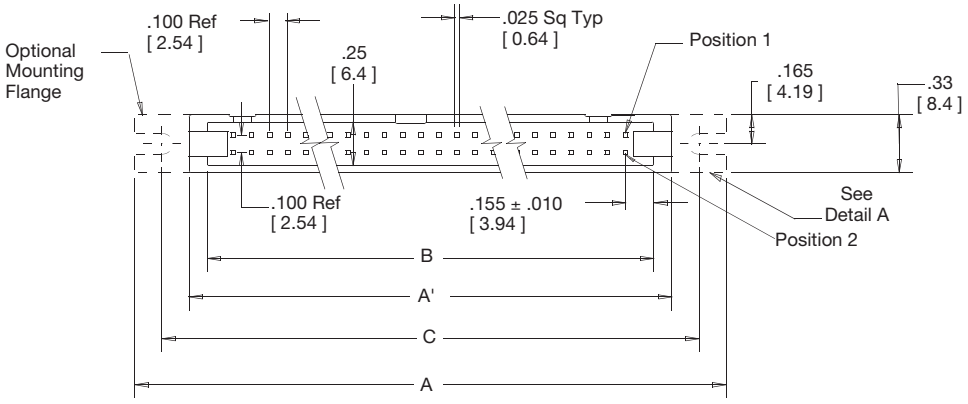


Slotted Mounting Flange
46XX-XXX0





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

Strain Relief
(Order Separately)
3448 - 46XX

Contact Quantity:
See Table

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

Ejector/Latch System:
0 = None (Standard)
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 (Standard) (RIA E1 & C1 Apply)
1 = w/o Mounting Flange (RIA E1 & C1 Apply)
5 = Mounting Flanges w/ Threaded Insert from Socket mating side (RIA E5 & C3 Apply)

Contact Quantity:
See Table

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

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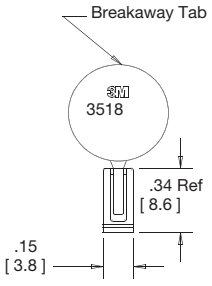
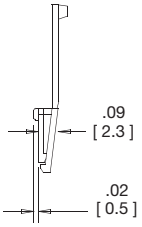
Table 1							
Pin Qty	Dimensions						Polarizing Notches Provided
	A	A'	B	C	D	E	
10	1.50 [38.1]	0.90 [22.9]	0.71 [18.0]	1.20 [30.5]	0.77 [19.6]	0.85 [21.6]	B or C (See Note 1)
14	1.70 [43.2]	1.10 [27.9]	0.91 [23.1]	1.40 [35.6]	0.97 [24.6]	1.05 [26.7]	BC
16	1.80 [45.7]	1.20 [30.5]	1.01 [25.7]	1.50 [38.1]	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

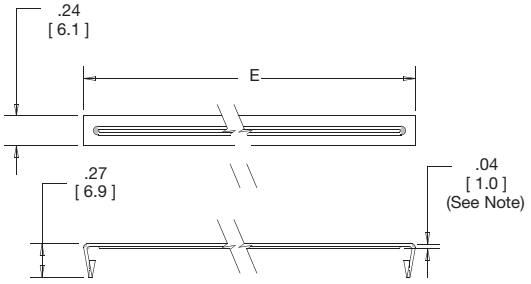
Table 2					
Ejector/Latch Option	Part Number	Dimensions			
		F	G	H	I
Short	3505-16	.335 [8.51]	.726 [18.44]	0.92 [23.4]	.41 [10.4]
Long	3505-17	.484 [12.29]	.875 [22.23]	1.07 [27.2]	.56 [14.2]
Universal	3505-21	.484 [12.29]	.809 [20.55]	1.01 [25.65]	.56 [14.2]



3M Part No 3518

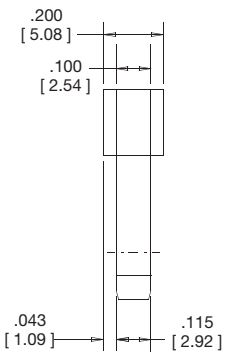


Polarizing Key
(Order Separately)
Material: Gray Glass Filled Polyester

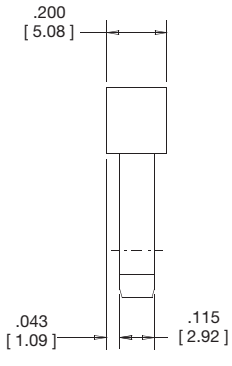


Strain Relief
Material .012" [0.30] Thick
Stainless Steel

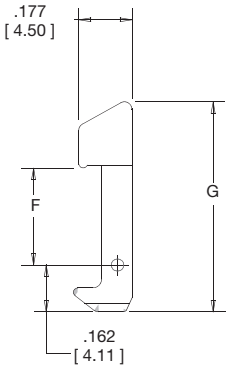
Ejector/Latch
Material: Gray Glass Filled Polyester



3505-21



3505-16
3505-17



Notes:

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

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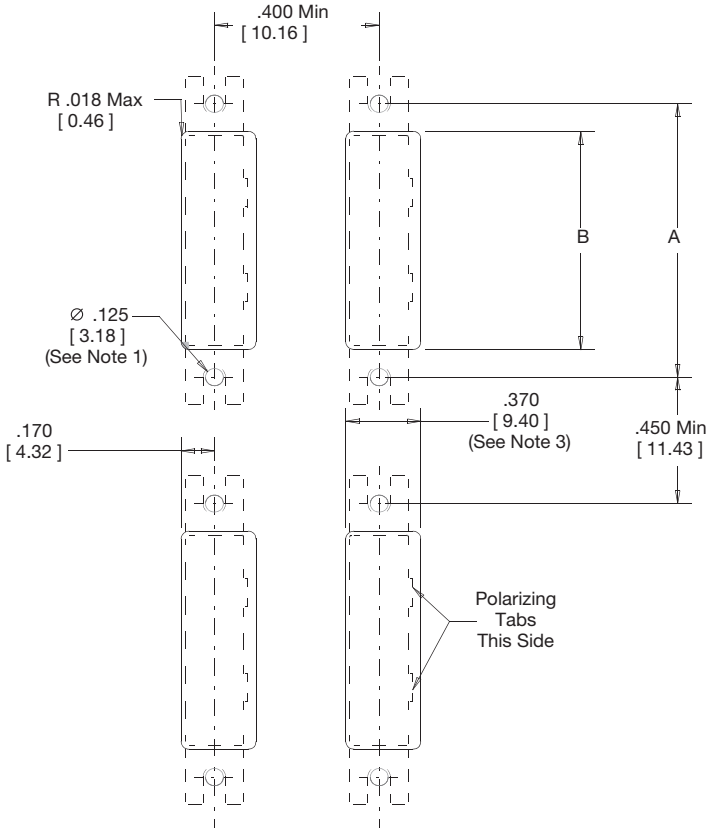
Table 3			
Contact Quantity	**3M Part Number Series**	**Dimension A**	**Dimension B**
10	4610	1.200 [30.48]	0.945 [24.00]
14	4614	1.400 [35.56]	1.145 [29.08]
16	4616	1.500 [38.10]	1.245 [31.62]
20	4620	1.700 [43.18]	1.445 [36.70]
24	4624	1.900 [48.26]	1.645 [41.78]
26	4626	2.000 [50.80]	1.745 [44.32]
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 [3.18].
3. Without polarizing tabs .340 [8.64].

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