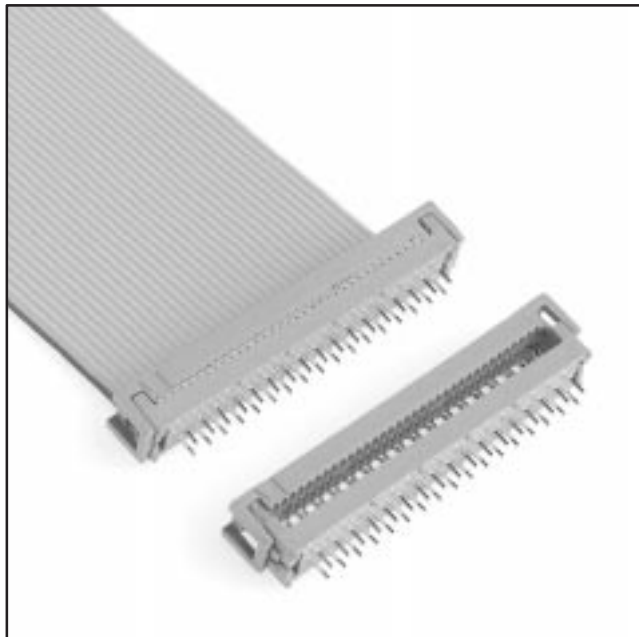


# .100" x .100" PCB

Two Row

3900 Series



104

## IMPORTANT NOTICE TO PURCHASER

ALL STATEMENTS, TECHNICAL INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED ON TESTS WE BELIEVE TO BE RELIABLE, BUT THE ACCURACY OR COMPLETENESS THEREOF IS NOT GUARANTEED, AND THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES, EXPRESSED OR IMPLIED:

SELLER'S AND MANUFACTURER'S ONLY OBLIGATION SHALL BE TO REPLACE SUCH QUANTITY OF THE PRODUCT PROVED TO BE DEFECTIVE. NEITHER SELLER NOR MANUFACTURER SHALL BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE, DIRECT OR CONSEQUENTIAL, ARISING OUT OF THE USE OF OR THE INABILITY TO USE THE PRODUCT. BEFORE USING, USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR HIS INTENDED USE, AND USER ASSUMES ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH. NO STATEMENT OR RECOMMENDATION NOT CONTAINED HEREIN SHALL HAVE ANY FORCE OR EFFECT UNLESS IN AN AGREEMENT SIGNED BY OFFICERS OR SELLER AND MANUFACTURER.

Date Issued: August 5, 1997

TS-0004-13  
Sheet 1 of 3

## Physical

### Insulation

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

### Contact

Material: See Ordering Information  
Plating  
Underplate: 2.5  $\mu\text{m}$  [100  $\mu\text{''}$ ] Nickel — QQ-N-290, Class 2  
U-Slot & Solder Tails: 5.1  $\mu\text{m}$  [200  $\mu\text{''}$ ] [ 90/10 ] Tin Lead — MIL-P-81728

**Marking:** 3M Logo, Part Identification Number

### Strain Relief

Material: Stainless Steel, 0.38 [0.15] Thk  
Gray PVC

**Wire Accommodation:** Solid or Stranded 26 & 28 AWG

## Electrical

**Current Rating:** 1 A

**Insulation Resistance:**  $> 1 \times 10^9 \Omega$  at 500 Vdc

**Withstanding Voltage:** 1000 Vrms at Sea Level

## Environmental

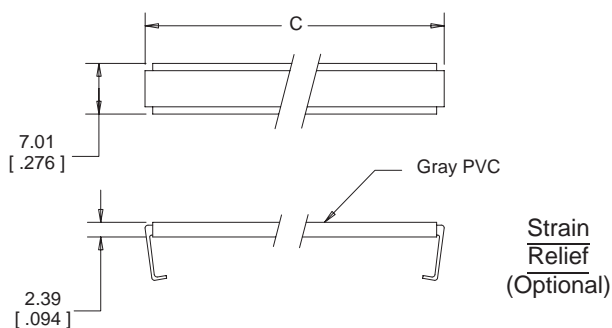
**Temperature Rating:**  $-55^\circ\text{C}$  to  $+105^\circ\text{C}$

UL File No.: E68080

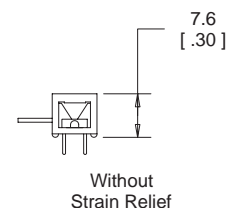
### 3M Electronic Products Division

6801 River Place Blvd.  
Austin, TX 78726-9000

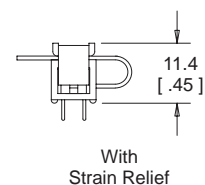
For technical, sales or ordering information call  
**800-225-5373**



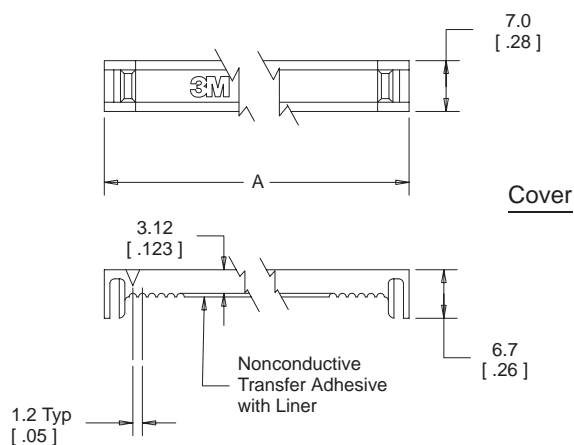
Assembled Height



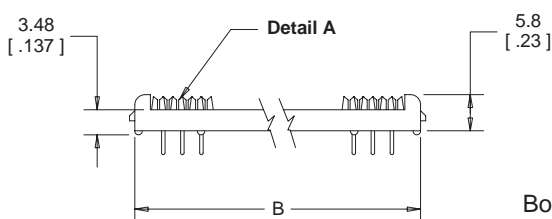
Without Strain Relief



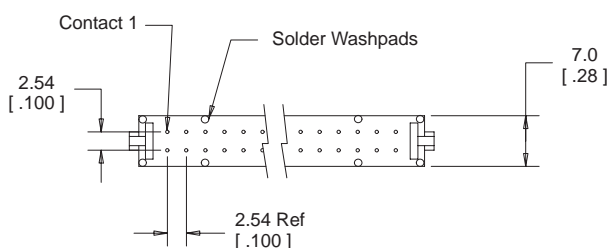
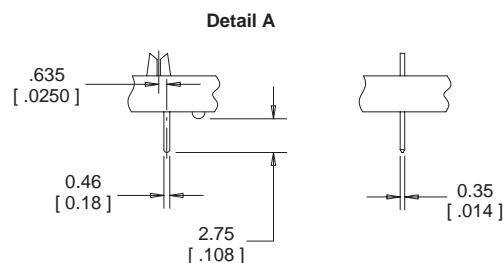
With Strain Relief



Cover



Body



mm  
[Inch]

Tolerance Unless Noted			
	.0	.00	.000
mm	±.3	±.13	

[ ] Dimensions for Reference only

## Ordering Information

### Connector 39XX-X0X0T

Contact Quantity  
(See Table)

Contact Material:  
0 = Be Cu (C172) (Standard)  
2 = Phosphor Bronze (Special Order)

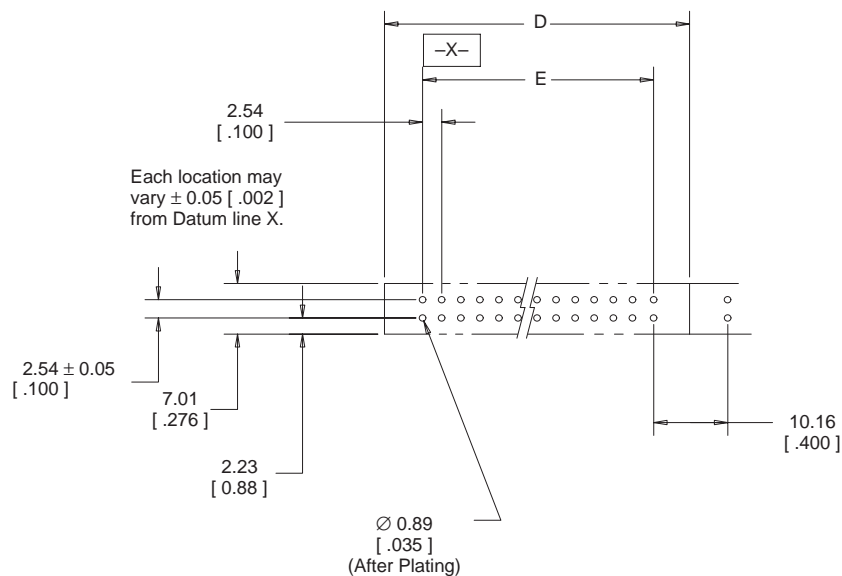
Cover Style:  
0 = Cover, Two Piece, with Adhesive  
1 = Cover, Preassembled No Adhesive

### Strain Relief (Optional) 3448-39XX

Contact Quantity  
(See Table)

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Sheet 2 of 3

Contact Quantity	Dimensions				
	A	B	C	D	E
06	15.2 [ 0.60 ]	12.8 [ 0.50 ]	14.6 [ 0.57 ]	15.2 [ 0.60 ]	5.1 [ 0.20 ]
08	17.7 [ 0.70 ]	15.3 [ 0.60 ]	17.1 [ 0.67 ]	17.7 [ 0.70 ]	7.6 [ 0.30 ]
10	20.4 [ 0.80 ]	17.8 [ 0.70 ]	19.8 [ 0.78 ]	20.4 [ 0.80 ]	10.2 [ 0.40 ]
14	25.5 [ 1.00 ]	22.9 [ 0.90 ]	25.0 [ 0.98 ]	25.5 [ 1.00 ]	15.2 [ 0.60 ]
16	28.1 [ 1.10 ]	25.5 [ 1.00 ]	27.4 [ 1.08 ]	28.1 [ 1.10 ]	17.8 [ 0.70 ]
20	33.1 [ 1.30 ]	30.5 [ 1.20 ]	32.5 [ 1.28 ]	33.1 [ 1.30 ]	22.9 [ 0.90 ]
24	38.0 [ 1.50 ]	35.6 [ 1.40 ]	37.4 [ 1.47 ]	38.0 [ 1.50 ]	27.9 [ 1.10 ]
26	40.8 [ 1.60 ]	38.2 [ 1.50 ]	40.0 [ 1.57 ]	40.8 [ 1.60 ]	30.5 [ 1.20 ]
30	45.6 [ 1.80 ]	43.2 [ 1.70 ]	45.0 [ 1.77 ]	45.6 [ 1.80 ]	35.6 [ 1.40 ]
34	50.9 [ 2.00 ]	48.3 [ 1.90 ]	50.3 [ 1.98 ]	50.9 [ 2.00 ]	40.6 [ 1.60 ]
36	53.3 [ 2.10 ]	50.9 [ 2.00 ]	52.6 [ 2.07 ]	53.3 [ 2.10 ]	43.2 [ 1.70 ]
40	58.5 [ 2.30 ]	55.9 [ 2.20 ]	58.0 [ 2.28 ]	58.5 [ 2.30 ]	48.3 [ 1.90 ]
50	71.2 [ 2.80 ]	68.6 [ 2.70 ]	70.6 [ 2.78 ]	71.2 [ 2.80 ]	61.0 [ 2.40 ]
60	83.9 [ 3.30 ]	81.3 [ 3.20 ]	83.3 [ 3.28 ]	83.9 [ 3.30 ]	73.7 [ 2.90 ]
64	89.0 [ 3.50 ]	86.4 [ 3.40 ]	88.4 [ 3.48 ]	89.0 [ 3.50 ]	78.7 [ 3.10 ]



Recommended Board Layout