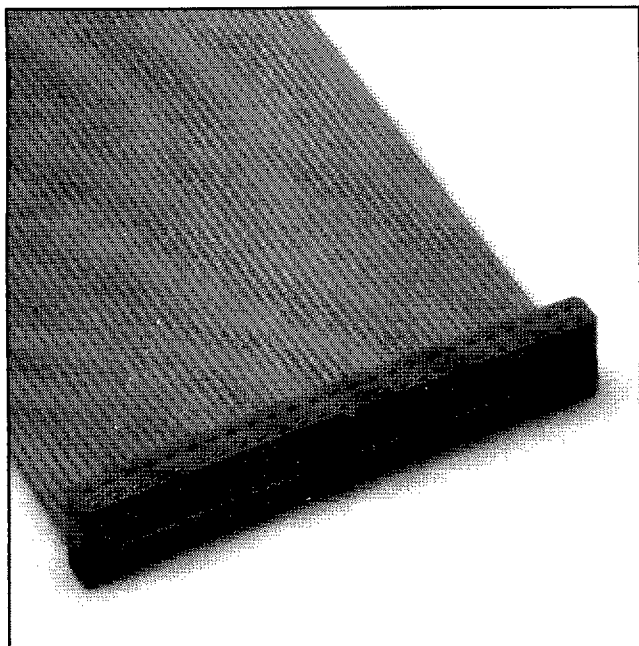


# 2mm Molded Socket

1mm Pitch Cable

870 Series



- Low profile allows close stacking between components and boards
- Integral strain relief
- One piece construction
- Centerbump polarity feature available
- Mates with industry standard headers

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Sheet 1 of 3

## Physical

### Insulation

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

### Contact

Material: Beryllium Copper  
Plating  
Underplate & U-Slot: 50-150  $\mu$ " [ 1.27-3.81  $\mu$ m ] Nickel — QQ-N-290, Class 2  
Wiping Area: Gold — MIL-G-45204, Type II, Grade C

**Wire Accommodation:** 28 AWG stranded

**Marking:** Orientation delta and 3M logo

Note: The location and thickness of the contact plating is determined by the part number. Refer to ordering information.

## 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:**  $-67^\circ\text{F}$  to  $+221^\circ\text{F}$

UL File No.: E86982  
CSA File No.: LR 48869

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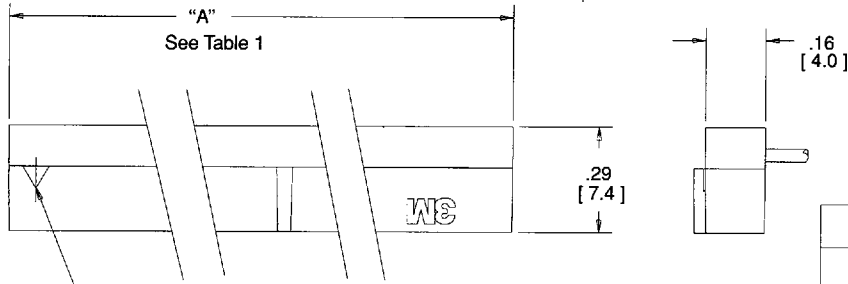
6801 River Place Blvd.  
Austin, TX 78726-9000

# 2mm Molded Socket

1mm Pitch Cable

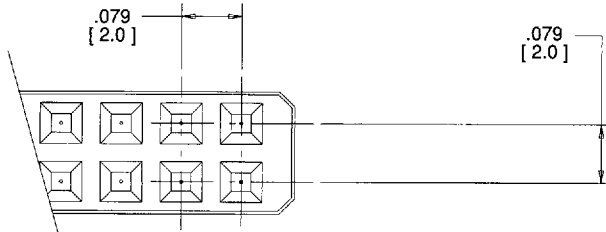
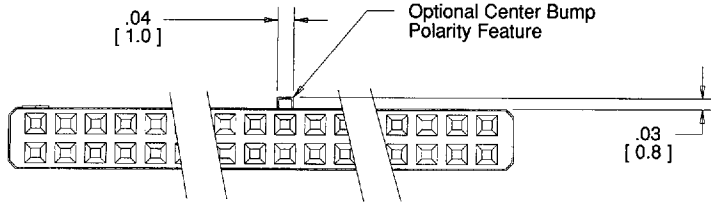
870 Series

Sheet 2 of 3

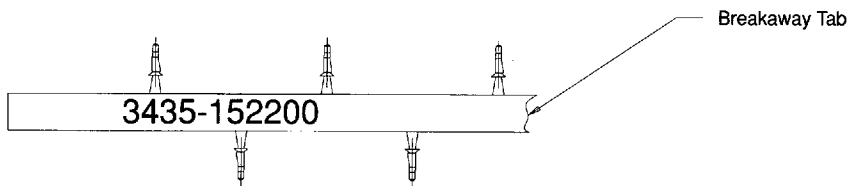


Delta Indicates Position No. 1

Contact Quantity	Dim "A"
44	1.79 [ 45.5 ]
50	2.03 [ 51.6 ]



DETAIL "A"



Keying Plug  
(Optional, Order Separately)

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

[ ] Dimensions for Reference Only

TS-0525-03

## Ordering Information

870XX-1X00XX

Contact Quantity  
(See Table 1)

Polarization  
0 = No Polarization  
6 = Center Bump

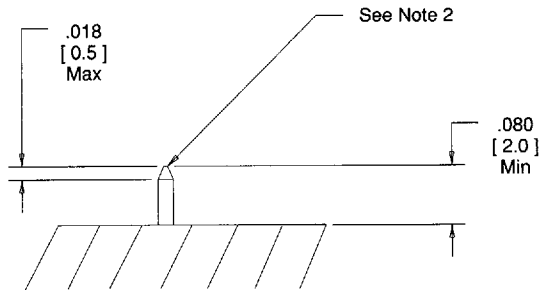
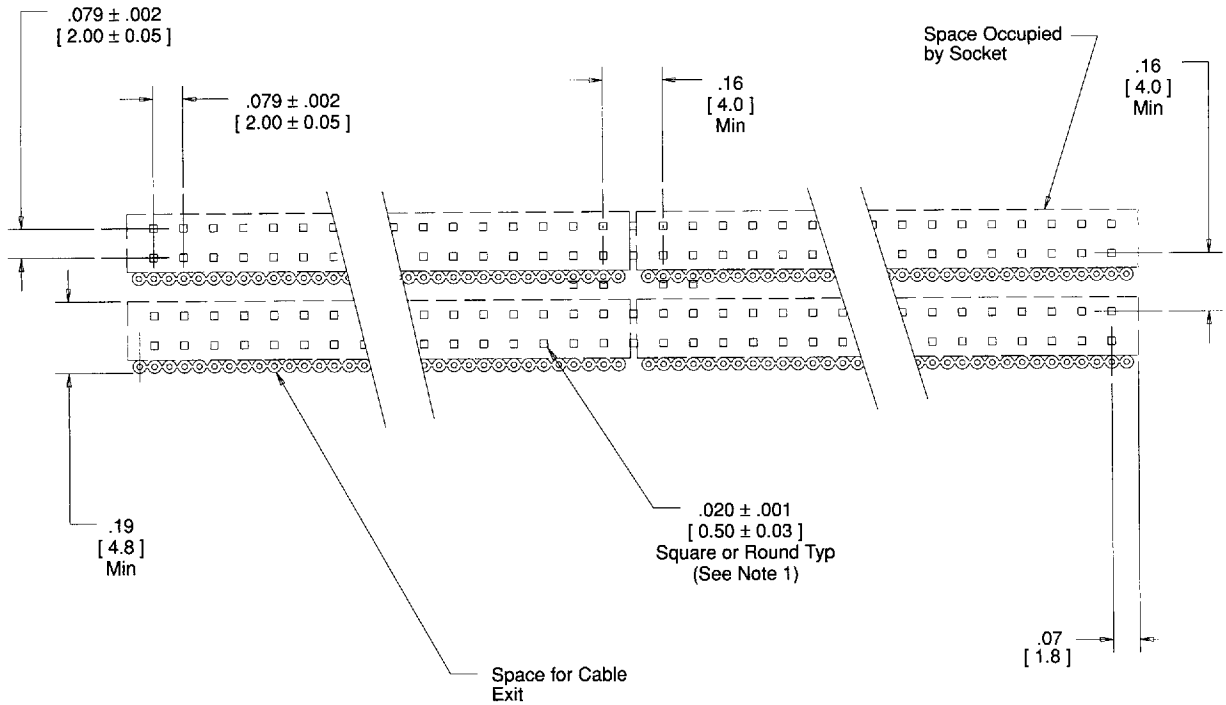
Plating  
EB = 30 μ" [ 0.76 μm ] Avg Gold  
EI = 15 μ" [ 0.38 μm ] Avg Gold  
EN = 5 μ" [ 0.13 μm ] Avg Gold

# 2mm Molded Socket

1mm Pitch Cable

870 Series

Sheet 3 of 3



TS-0525-03

Inch  
[mm]

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

[ ] Dimensions for Reference Only

Notes:

1. Measured at tip.
2. Tapered pin tip configuration recommended.

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