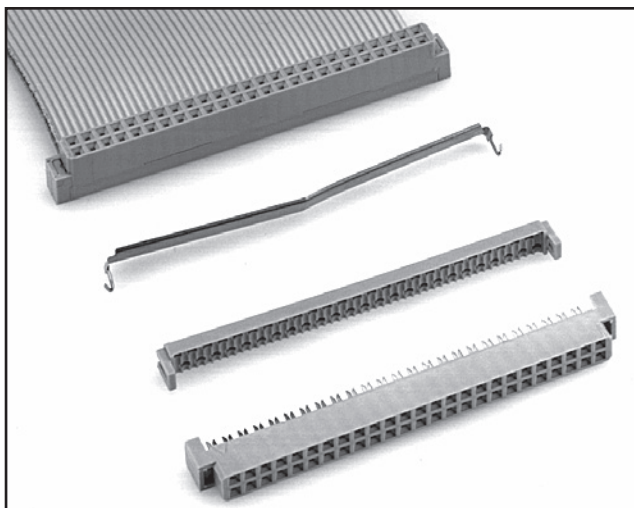


# 3M™ Pak 20 Wiremount Socket

2 mm × 2 mm for 1 mm Pitch Cable

1522 Series



- Industry standard compatible
- Mates with Pak 20 (2 mm x 2 mm) grid pin strips
- Low profile
- Preassembled covers
- Available with or without strain relief
- Available with optional centerbump polarity feature
- RoHS Compliant. See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of [www.3Mconnectors.com](http://www.3Mconnectors.com) for compliance information (RIA E1 & C1 apply)

Date Modified: July 19, 2012

TS-0523-E  
Sheet 1 of 3

## Physical

### Insulation:

Material: Glass Filled Polyester (PBT)

Flammability: UL 94V-0

Color: Gray

### Contact:

Material: Copper Alloy

### Plating:

Underplating and U-Slot: 50 -150 μ” [ 1.27-3.81 μm ] Nickel - QQ-N-290, Class 2

Wiping Area: Gold, ASTM B488-01, Class C

Wire Accommodation: 28 AWG Stranded

**Marking:** 3M Logo, Part Identification Number and Orientation Triangle

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

## Electrical

**Current Rating:** 4.75 A, 1 Line Powered

2.00 A, 6 Adjacent Lines Powered

1.25 A, All Lines Powered

Rating Conditions: EIA-364-070 Method 2, 30°C maximum temperature rise, 20% derated. Reference appropriate 3M Product Specification for detailed current derating curves.

**Insulation Resistance:**  $> 1 \times 10^9 \Omega$  at 500 V<sub>DC</sub>

**Withstanding Voltage:** 500 V<sub>RMS</sub> at Sea Level

## Environmental

**Temperature Rating:** -55°C to +105°C

UL File No.: E68080

RoHS = Directive 2002/95/EC,

Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment



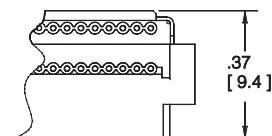
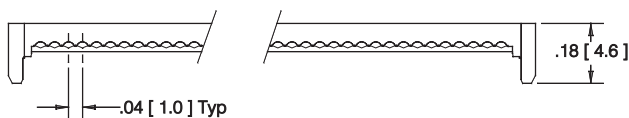
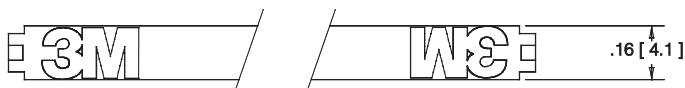
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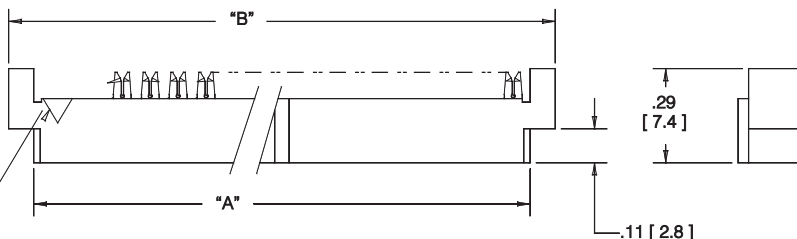
# 3M™ Pak 20 Wiremount Socket

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1522 Series

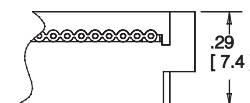
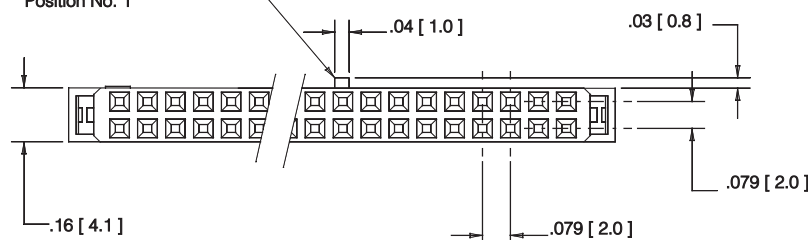


**Assembled Height  
with Strain Relief**

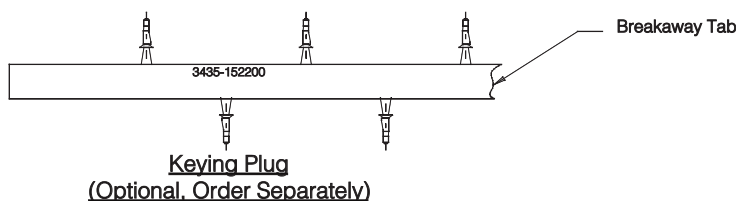


Delta Indicates  
Position No. 1

Optional Center Bump  
Polarity Feature



**Assembled Height  
without Strain Relief**



| Inch<br>(mm)           |     |      |       |
|------------------------|-----|------|-------|
| Tolerance Unless Noted |     |      |       |
|                        | .0  | .00  | .000  |
| Inch                   | ±.1 | ±.01 | ±.005 |

[ ] Dimensions for  
Reference only

## Ordering Information

**Socket**  
**1522XX - 0XXXXX** RIA (E1 & C1 Apply)

Contact Quantity:  
(See Table 1)

- 0 = Preassembled Closed Cover, on even row side
- 1 = Preassembled Open Cover
- 2 = Preassembled Closed Cover, on odd row side

- 0 = No Polarization
- 1 = Center Bump

Plating  
GB = 30 μ" [0.76 μm] Avg Gold  
GG = 15 μ" [0.38 μm] Avg Gold

- 0 = No Strain Relief
- 3 = With Strain Relief

**Strain Relief**  
**3448-1522XX**

Contact Quantity  
(See Table 1)

**Gold  
Keying Plug**

3435-152200  
Order Separately

Application Tools: 3640 press (or equivalent), 3443-118 locator plate, 3442-9 platen

TS-0523-E  
Sheet 2 of 3



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# 3M™ Pak 20 Wiremount Socket

2 mm × 2 mm for 1 mm Pitch Cable

1522 Series



| Table 1          |               |               |
|------------------|---------------|---------------|
| Contact Quantity | Dimensions    |               |
|                  | A             | B             |
| 10               | .45 [ 11.4 ]  | .59 [ 15.0 ]  |
| 12               | .53 [ 13.4 ]  | .67 [ 17.0 ]  |
| 20               | .84 [ 21.3 ]  | .99 [ 25.1 ]  |
| 26               | 1.08 [ 27.4 ] | 1.22 [ 31.0 ] |
| 40               | 1.63 [ 41.4 ] | 1.77 [ 45.0 ] |
| 44               | 1.79 [ 45.5 ] | 1.93 [ 49.0 ] |
| 50               | 2.03 [ 51.3 ] | 2.17 [ 55.0 ] |



## Mating Pin Detail

| 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.

TS-0523-E  
Sheet 3 of 3



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