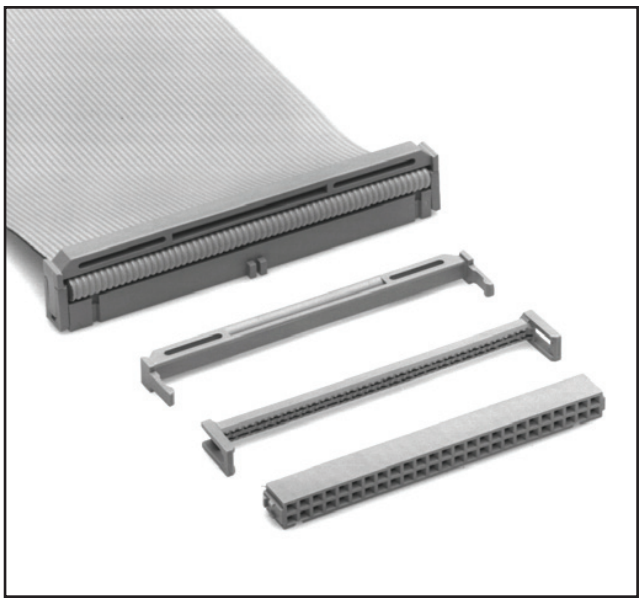
# 3M™ IDC Ribbon Cable Socket

.100” × .100” for .050” Pitch Cable

891 Series



- Preassembled, packaging on swords for easy loading of manual and semi-automatic assembly equipment
- “Bumps” are designed to prevent premature latch locking during shipment
- Optional double-sided adhesive pull tab for easy unplugging
- Double-recessed cover for cable terminating from either side virtually eliminating the need for single-recessed cover connectors
- Military polarization, with or without centerbump
- See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of www.3Mconnectors.com for compliance information (RIA E1 & C1 apply)

Date Modified: July 18, 2012

TS-0449-L
Sheet 1 of 3

**Insulation:**

Material: Glass Filled Polyester (PBT)

Flammability: UL 94V-0

Color: Gray

**Contact:**

Material: Phosphor Bronze

**Plating:**

Underplating: 50 µ” [ 1.27 µm ] Nickel

Wiping Area: 30 µ” [ 0.76 µm ] Gold

Wire Accommodation: 26 and 28 AWG Stranded

**Marking:** 3M Logo and Orientation Triangle

**Current Rating:**

| | 1 line | 6 Adjacent Lines | All Lines |
|---|---|---|---|
| 28 AWG | 4.25 | 1.75 | 1.25 |
| 26 AWG | 4.50 | 2.25 | 1.50 |

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 $V_{DC}$

**Withstanding Voltage:** 1,000 $V_{RMS}$ at Sea Level

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

UL File No.: E68080

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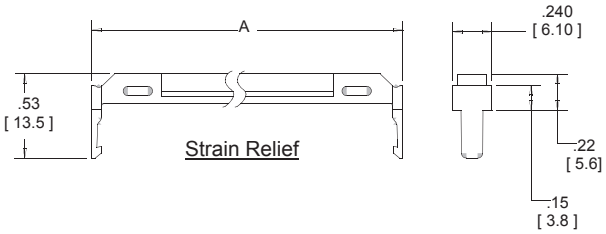
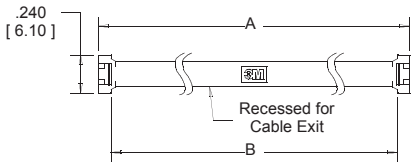
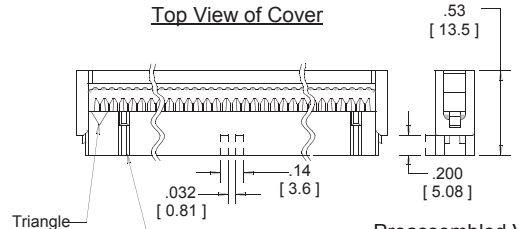
| Contact Quantity | Dimensions | |
|---|---|---|
| | A | B |
| 8 | 0.58 [ 14.7 ] | 0.43 [ 10.9 ] |
| 10 | 0.68 [ 17.3 ] | 0.53 [ 13.5 ] |
| 14 | 0.88 [ 22.4 ] | 0.73 [ 18.5 ] |
| 16 | 0.98 [ 24.9 ] | 0.83 [ 21.1 ] |
| 20 | 1.18 [ 30.0 ] | 1.03 [ 26.2 ] |
| 24 | 1.38 [ 35.1 ] | 1.23 [ 31.2 ] |
| 26 | 1.48 [ 37.6 ] | 1.33 [ 33.8 ] |
| 30 | 1.68 [ 42.7 ] | 1.53 [ 38.9 ] |
| 34 | 1.88 [ 47.8 ] | 1.73 [ 43.9 ] |
| 36 | 1.98 [ 50.3 ] | 1.83 [ 46.5 ] |
| 40 | 2.18 [ 55.4 ] | 2.03 [ 51.6 ] |
| 44 | 2.38 [ 60.5 ] | 2.23 [ 56.4 ] |
| 50 | 2.68 [ 68.1 ] | 2.53 [ 64.3 ] |
| 60 | 3.18 [ 80.8 ] | 3.03 [ 77.0 ] |



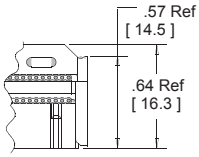

Strain Relief



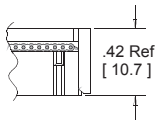

Top View of Cover



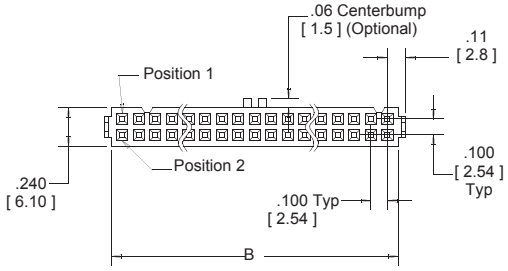

Preassembled View



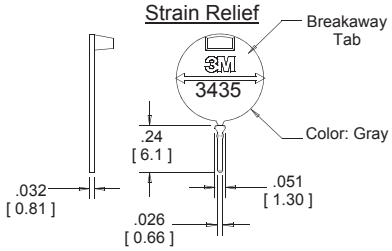

Assembled Height with Standard Plastic Strain Relief




Assembled Height Without Strain Relief




Bottom View of Body




3435-0
Keying Plug
(Optional: Order Separately)
Material: Gray Polyester (PBT)

Inch
(mm)

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

[ ] Dimensions for Reference only

## Ordering Information

**Sockets**
**891XX-0X0X**

- XX: Contact Quantity — See Table
- X: 1 = No Strain Relief, 3 = Strain Relief
- X: Package Style Options: 0 = Preassembled
- X: Polarization Options: 0 = Without Centerbump, 1 = With Centerbump

**Strain Relief**
(Order Separately)
**3448-891XX**

- XX: Contact Quantity: See Table

**Pull Tabs**
(Order Separately)
See TS-0496

Assembly tools: 3M™ Press (or equivalent) 3640 , 3M™ Locator Plate 3443-107N, 3M™ Platen 3442-9.



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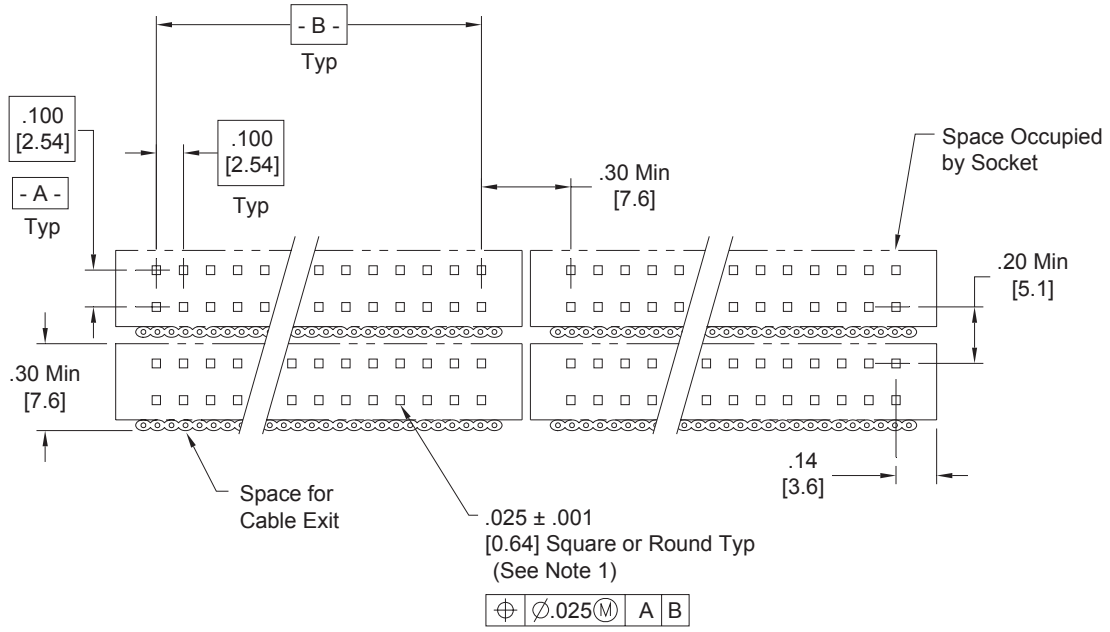


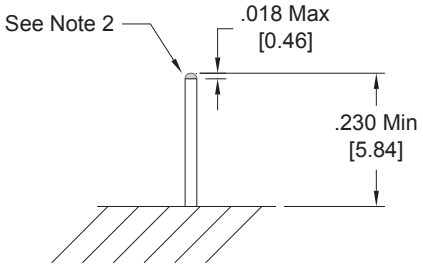


## Recommended Post Pattern for Stacked Configurations

Note 1: Measured at tip.

Note 2: Tapered pin tip configuration recommended.



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