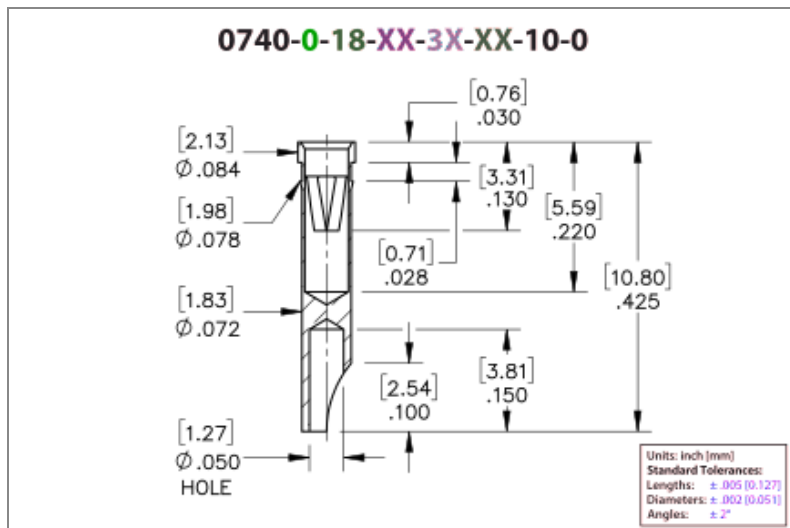




PRODUCT NUMBER: 0740-0-18-15-36-27-10-0

www.mill-max.com  
DATA SHEET



## 0740-0-18-15-36-27-10-0 SPECIFICATIONS

| General Info                     |   |
|----------------------------------|---|
| Description <sup>1</sup> :       | Wire Termination                                |
|                                  | Receptacle - Soldercup Type                     |
| Mounting Feature:                | Press-Fit into a Non-Plated Through Hole (NPTH) |
| Mounting Hole:                   | .075" (1,905mm)                                 |
| Pin Diameter Range:              | .032"-.046" (0,813-1,168mm)                     |
| Packaging:                       | Packaged in Bulk                                |
| RoHS <sup>2</sup> :              | Yes   |
| Product Lifecycle <sup>3</sup> : | Active  |

| Materials                      |                             |
|--------------------------------|-----------------------------|
| Shell Material <sup>4</sup> :  | Brass Alloy                 |
| Shell Plating <sup>5</sup> :   | 10 $\mu$ " Gold over Nickel |
| Contact Plating <sup>6</sup> : | 30 $\mu$ " Gold over Nickel |

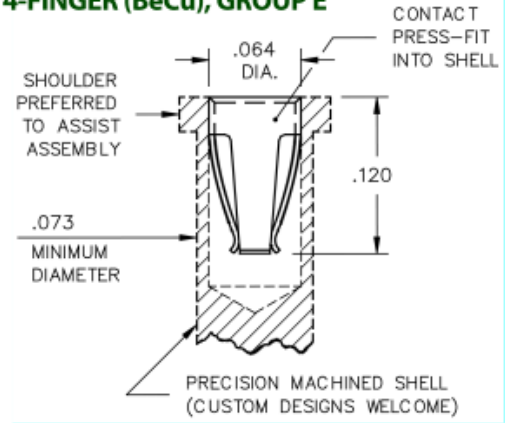
| Technical Specs                            |   |
|--|---|
| Operating Temperature Range <sup>7</sup> : | -55/+125° C                                     |
| Current Rating <sup>8</sup> :              | 8A @ 10°C Temperature Rise                      |
| Contact Resistance <sup>9</sup> :          | 10 mΩ Max                                       |
| Shock <sup>10</sup> :                      | No Elect. Discontinuity > 1μs @ 50g             |
| Vibration <sup>11</sup> :                  | No Elect. Discontinuity > 1μs @ 10-2000HZ, 20 G |

NOTES:

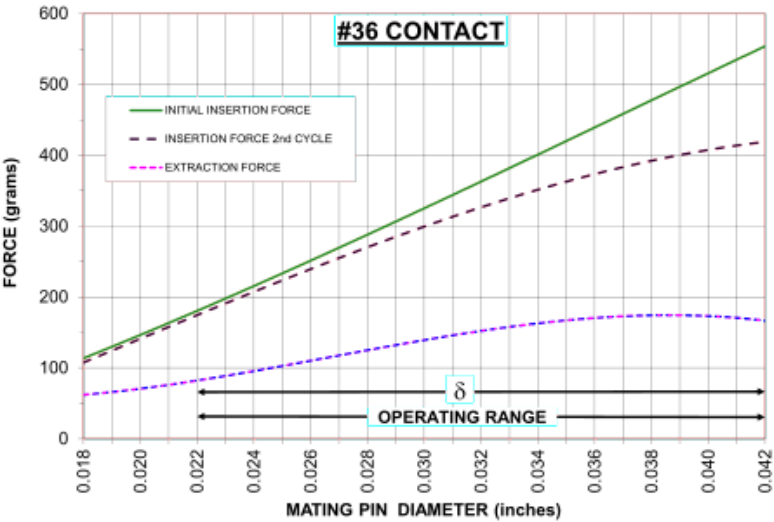
- 1. Standard Tolerances:  
Lengths +/- .005" (0,13)  
Diameters: +/- .002" (0,051)  
Angles: +/- 2°
- 2. Mill-Max products labeled with the RoHS symbol are compliant with all three ROHS Directives. All of our products previously described as RoHS (2002/95/EC) and RoHS-2 (2011/65/EC) are also compliant with RoHS-3 (2015/863/EU).
- 3. Part is Active and in Production, No Scheduled Obsolescence
- 4. Brass Alloy 360 per ASTM B 16, or 385 per ASTM B455
- 5. GOLD per ASTM B 488, Type 1 (99.7% min. gold), Code C (130-200 HK {Knoop hardness}); NICKEL per ASTM B 689, Type 2 (Bright),
- 6. GOLD per ASTM B 488, Type 1 (99.7% min. gold), Code C (130-200 HK {Knoop hardness}), NICKEL per ASTM B 689, Type 2 (Bright)
- 7. Per IEC 60512-11-(4,-9,-10,-12)
- 8. Per IEC 60512-5-1, Current Carrying Capacity (evaluated at 10° C Temp. Rise)
- 9. Per EIA-364-23C, Low Level Contact Resistance
- 10. Per IEC 60512-6-3: Test 6c: Shock
- 11. Per IEC 60512-6-4: Test 6d: Vibration (sinusoidal)

CONTACT:

#36 CONTACT  
FOR .022"-.042" DIAMETER PINS ( $\delta$  = .022)  
4-FINGER (BeCu), GROUP E



The insertion / extraction force characteristics above were derived using a 30 microinch gold-plated contact and polished steel gauge pins having a bullet-shaped tip. The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.



|          |                  |                         |       |
|----------|------------------|-------------------------|-------|
| Material | Beryllium Copper | Current Rating (amps)   | 16.00 |
| Fingers  | 4                | Compliance ( $\delta$ ) | 0.020 |
| Length   | .120" (3,048mm)  | Contact Group           | E     |

## ADDITIONAL NOTES AND SPECIFICATIONS

In the interest of improved design, quality and performance , Mill-Max reserves the right to make changes in its specifications without prior notice. Specifications and tolerances are provided wherever possible. The tolerance on dimensions of critical to function features is typically held tighter than the stated standard tolerances, such as press-fits, holes and lengths affecting the coplanarity of SMT products. Due to the wide variety of interconnects Mill-Max offers, the specific tolerances vary from product to product. If you need information regarding the tolerance of a particular part, please contact Technical Services.

## RELATED LINKS AND DOCUMENTS

Application Note: ( [https://www.mill-max.com/sites/default/files/external/assets/2019-07/pins\\_receptacles\\_and\\_connectors\\_with\\_integrated\\_solder\\_cups.pdf](https://www.mill-max.com/sites/default/files/external/assets/2019-07/pins_receptacles_and_connectors_with_integrated_solder_cups.pdf) )

Environmental Compliance: ( <https://www.mill-max.com/rohs> )