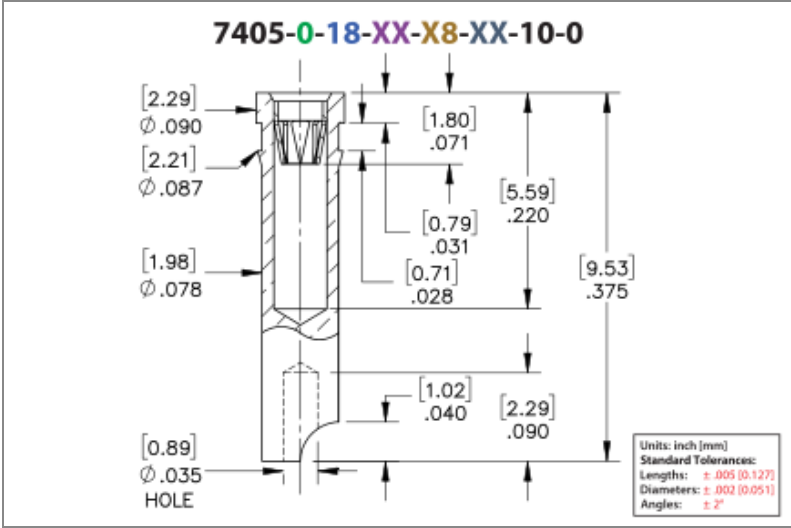




PRODUCT NUMBER: 7405-0-18-01-18-27-10-0

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DATA SHEET



7405-0-18-01-18-27-10-0 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:	.084" (2,134mm)
Pin Diameter Range:	.037"-.043" (0,940-1,092mm)
Packaging:	Packaged in Bulk
RoHS:	No
Product Lifecycle <sup>2</sup> :	Active

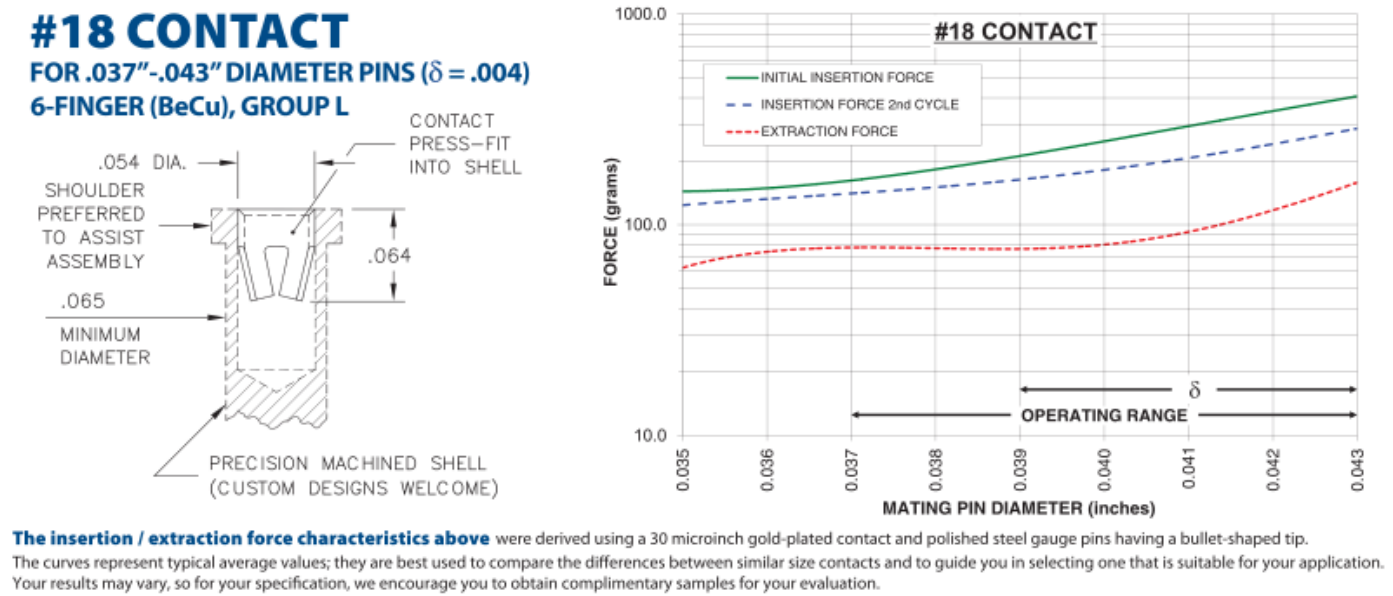
Materials	
Shell Material <sup>3</sup> :	Brass Alloy
Shell Plating <sup>4</sup> :	200 - 300 µ" Tin/Lead over Nickel
Contact Plating <sup>5</sup> :	30 µ" Gold over Nickel

Technical Specs	
Mechanical life	1,000 Cycles Minimum (Durability) <sup>6</sup> :
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. Part is Active and in Production, No Scheduled Obsolescence
- 3. Brass Alloy 360 per ASTM B 16, or 385 per ASTM B455
- 4. TIN/LEAD (93/7) per ASTM B 545 (Appendix X6.3.2.5 to eliminate whisker growth) Bright finish; NICKEL per ASTM B 689, Type 2 (Bright)
- 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. Receptacles are capable of 1,000 Minimum insertion/extraction cycles for a broad range of applications. Mating pin size, shape and finish, along with application specific variables, will affect the life of a receptacle contact.
- 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:



Material	Beryllium Copper	Fingers	6
Length	.060" (1,524mm)	Maximum Current	12A @ 30° C Temp. Rise
Maximum Operating Temp @ Max Current	120.00° C	20% De-rated Maximum Current	9.60A
Contact Resistance	10.00mΩ Max		

## 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> )