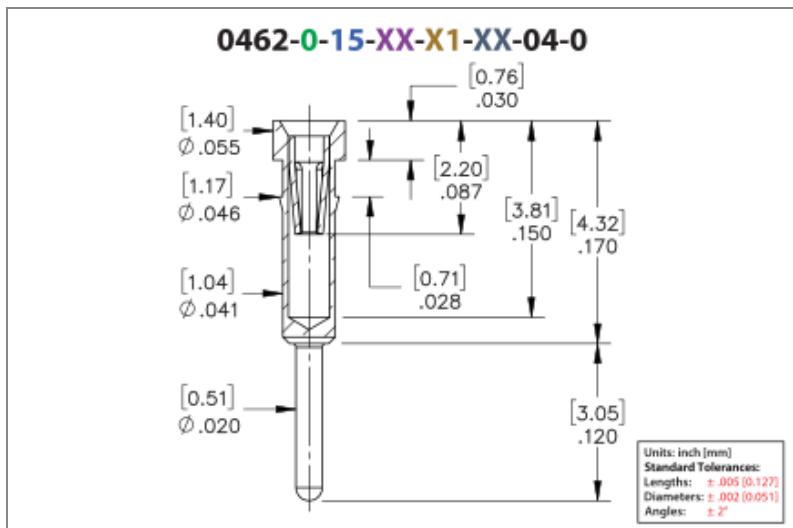




PRODUCT NUMBER: 0462-0-15-80-21-84-04-0

www.mill-max.com
DATA SHEET



0462-0-15-80-21-84-04-0 SPECIFICATIONS

General Info		Materials		Technical Specs	
Description¹: Receptacle With A Standard Tail		Shell Material⁵: Brass Alloy		Mechanical life (Durability)⁸: 1,000 Cycles Minimum	
Mounting Feature: Press-Fit into a Non-Plated Through Hole (NPTH)		Shell Plating⁶: 200 - 300 μ " Tin (matte finish) over Nickel		Operating Temperature Range⁹: -55/+125° C	
Mounting Hole: .043" (1,092mm)		Contact Plating⁷: 100 - 200 μ " Tin (matte finish) over Nickel		Maximum Current: Inner Contact Dependent, see Contact Data Below	
Alternate Mounting²: Through-Hole Solder tail Mount				Maximum Derated Current: Inner Contact Dependent, see Contact Data Below	
Pin Diameter Range: .015"-.022" (0,381-0,559mm)				Contact Resistance: 10 m Ω Max	
Packaging: Packaged in Bulk				Shock¹⁰: No Elect. Discontinuity > 1 μ s @ 50g	
RoHS³: Yes				Vibration¹¹: No Elect. Discontinuity > 1 μ s @ 10-2000HZ, 20 G	
Product Lifecycle⁴: Active					
Country Of Origin: USA					

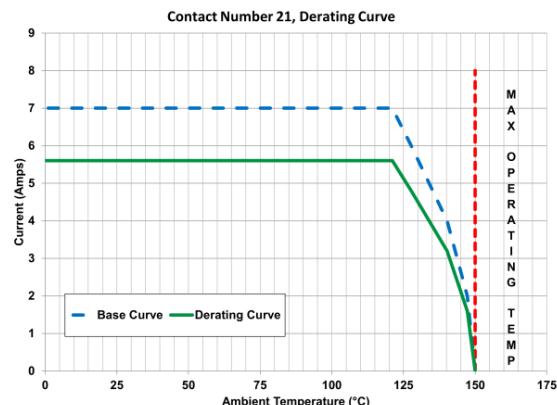
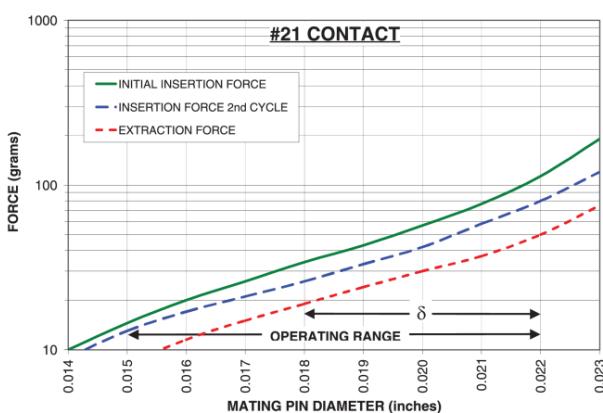
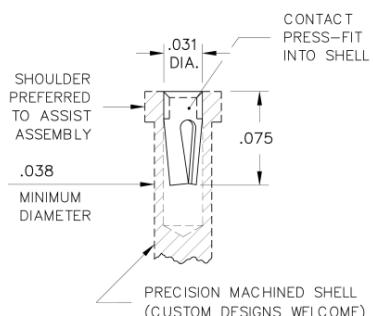
NOTES:

1. Standard Tolerances:
Lengths $+\/- .005$ " (0,13)
Diameters: $+\/- .002$ " (0,051)
Angles: $+\/- 2^\circ$
2. For through-hole solder mounting of this part, the suggestion is to make the finished hole size, at its minimum, $.004$ " larger than the diameter being soldered into the mounting hole.
3. 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).
4. Part is Active and in Production, No Scheduled Obsolescence
5. Brass Alloy 360 per ASTM B 16, or 385 per ASTM B455
6. TIN (100%) per ASTM B 545, Matte finish (With whisker and oxide inhibitors); NICKEL per ASTM B 689, Type 2 (Bright)
7. TIN (100%) per ASTM B 545, Matte finish (With whisker and oxide inhibitors); NICKEL per ASTM B 689, Type 2 (Bright)
8. 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.
9. Per IEC 60512-11-(4,-9,-10,-12)
10. Per IEC 60512-6-3: Test 6c: Shock
11. Per IEC 60512-6-4: Test 6d: Vibration (sinusoidal)

CONTACT:

#21 CONTACT

FOR $.015$ "-. 022 " DIAMETER PINS ($\delta = .004$)
3-FINGER (BeCu), GROUP A



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

Fingers

3

Compliancy (δ)	0.004	Length	.075" (1,905mm)
Maximum Current	6A @ 30° C Temp. Rise	Maximum Operating Temp @ Max Current	120.00° C
20% De-rated Maximum Current	4.80A	Contact Resistance	10.00mΩ Max
Contact Group	A		

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

- Engineering Notebook: [Introduction to Pin Receptacles](#)
- Environmental Compliance: <https://www.mill-max.com/rohs>