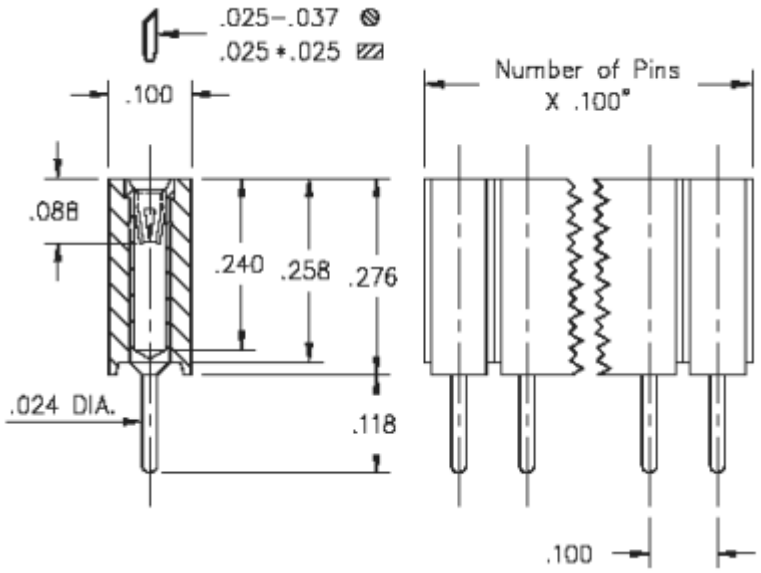
**Product Number: 801-44-008-10-001000**




**Description:**
Interconnect Socket
.100 Grid; Straight Socket
Standard Solder Tail
Single Row
Through Hole
Accepts .025-.037 .025 sq post" Leads
**Plating Code:**
44
**Shell Plating:**
200 µ" Tin (matte finish) over 100 µ" Nickel
**Inner Contact Plating:**
100 µ" Tin (matte finish) over 50 µ" Nickel

| # Of Pins | Mill-Max Part Number | RoHS Compliant |
|---|---|---|
| 8 | 801-44-008-10-001000 | RoHS 2002/95/EC |

**CONTACT:**

Contact Used: #47, Standard 6 Finger Contact
**Current Rating =** 4.5 Amps

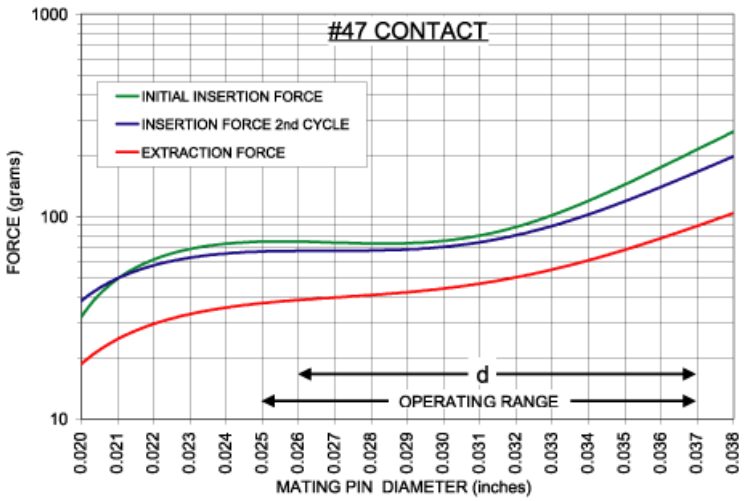
**BERYLLIUM COPPER ALLOY** 172 (UNS C17200) per ASTM B 194

**Properties of BERYLLIUM COPPER:**

- Chemical composition: Cu 98.1%, Be 1.9%
- Temper as stamped: TD01

Properties after heat treatment (TH01):

- Hardness: 36-43 Rockwell C
- Mechanical Life: 100 Cycles Min.
- Density: .298 lbs/in3
- Electrical Conductivity: 22% IACS*
- Resistance: 10 miliohms Max
- Operating Temperature: -55°C/+125°C
- Melting point: 980°C/865°C (liquidus/solidus)
- Stress Relaxation†: 96% of stress remains after 1,000 hours @ 100 ºC ; 70% of stress remains after 1,000 hours @ 200 ºC




*International Annealed Copper Standard, i.e. as a % of pure copper.

†Since BeCu loses its spring properties over time at high temperatures; it is rated for continuous use up to 150°C. For applications up to 300°C, Mill-Max offers many contacts in Beryllium Nickel. Contact Tech Support for more info.

**LOOSE PIN:**

Loose Pin Used: 1304

**BRASS ALLOY** (UNS C36000) per ASTM B 16

**Properties of BRASS ALLOY:**

- Chemical composition: Cu 61.5%, Zn 35.4%, Pb 3.1%†
- Hardness as machined: 80-90 Rockwell B
- Density: .307 lbs/in3
- Electrical conductivity: 26% IACS*
- Melting point: 900°C/885°C (liquidus/solidus)

†(3 to 4% lead is used to permit "free machining" and is permitted by EC Directive 2002/95Annex 6; so all pin materials are RoHS compliant)

*International Annealed Copper Standard, i.e. as a % of pure copper.

**INSULATOR INFORMATION:**

**PCT** Polyester, (Thermx CG933, black)

Standard Temperature

**Properties of PCT Polyester:**

- Brand: Thermx
- Grade: CG-933
- Rated voltage: 100 VRMS/150 VDC
- Insulation resistance: 10,000 Megaohms min.
- Material Heat Deflection Temp (per ASTM D 648): 529°F (276°C) @ 66 psi
- Dielectric strength: 1000 VRMS min. (700 VRMS min. for series 117 Shrink DIP)

Note: Materials above 446°F (230°C) are considered suitable for "eutectic" reflow soldering, above 500°F (260°C) for "lead-free" reflow soldering.