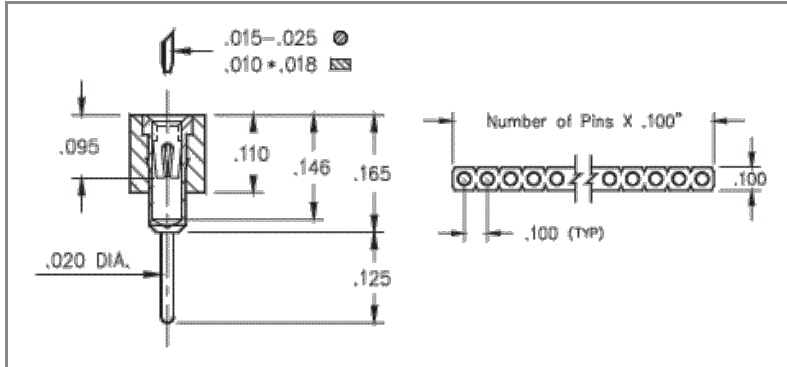


PRODUCT NUMBER: 310-44-138-41-001000



DESCRIPTION

Interconnect Machined Pin Socket

Standard Solder Tail Socket

Accepts .015"-.025" (0,381-0,635mm) dia leads

Rows: Single Row (1)

Pitch: .100" (2,540mm)

Clip Grid: 41

Pin Window Pattern 001

Plating Code: 44

Shell: 200 μ " Tin (matte finish) over 100 μ " Nickel

Inner Contact: 100 μ " Tin (matte finish) over 50 μ " Nickel

Insulator Pin Clip Type: 000

Mounting Type: Through Hole Solder Mount

Insulator Information:

PCT High Temperature

Pins

ROHS Compliant

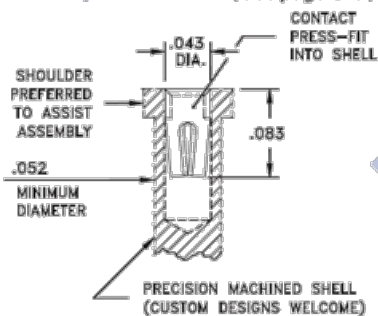
38



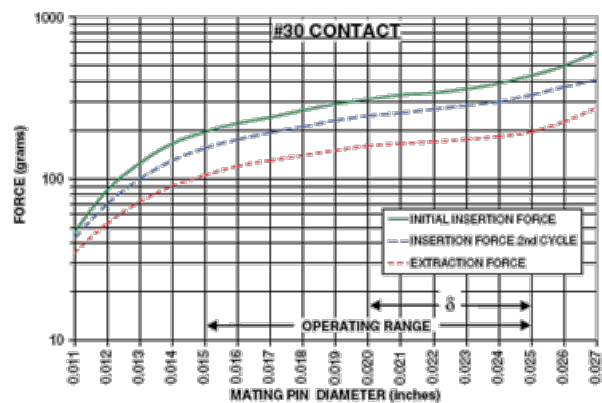
CONTACT:

#30 CONTACT

FOR .015"-.025" DIAMETER PINS ($\delta = .005$)
4-FINGER, GROUP C (See page 248)



CONTACT MATERIAL
BERYLLIUM COPPER
Alloy 172,
Heat Treated



Pin Diameter Range	.015"-.025" (0,381-0,635mm)		
Material	Beryllium Copper	Current Rating (amps)	3.00
Fingers	4	Compliance	.005" (0,127mm)
Length	.080" (2,032mm)	Group Code	C

CONTACT MATERIAL:

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

Properties of BERYLLIUM COPPER:

- Chemical composition: Cu 98.1%, Be 1.9%
- Hardness: 36-43 Rockwell C
- Density: .298 lbs/in³
- Electrical Conductivity: 22% IACS*
- Resistance: 10 mΩ 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 °C; 70% of stress remains after 1,000 hours @ 200 °C

*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 other materials. [Contact Tech Support](#) for more info.

LOOSE PIN/RECEPTACLE USED:

1001 (Brass Alloy)

BRASS ALLOY 360 per ASTM B 16, or 385 per ASTM B455

Properties of BRASS ALLOY 360 ASTM B 16:

- Chemical composition: Cu 63% (max), Pb 3.7% (max)†, Fe .35% (max), Zn remainder
- Temper as machined: H02/H04
- Yield Strength: 25-45 ksi
- Tensile strength: 57-80 ksi
- Hardness as machined: 80-90 Rockwell B
- Electrical conductivity: 26% IACS*
- Melting point: 1000 °C/840 °C (liquidus/solidus)

Properties of BRASS ALLOY 385 ASTM B 455:

- Chemical composition: Cu 60% (max), Pb 3.5% (max)†, Fe .35% (max), Zn remainder
- Temper as machined: H02/H04
- Yield Strength: 16 ksi(min)
- Tensile strength: 48 ksi(min)
- Hardness as machined: 80-90 Rockwell B
- Electrical conductivity: 28% IACS*
- Melting point: 1000 °C/840 °C (liquidus/solidus)

After machining, brass parts are often annealed (softened) for subsequent bending, swaging or crimping. A partial anneal down to 60±10 RB is recommended for 90° bends, a full anneal down to 35±15 RB is recommended for pins or terminals that are swaged (riveted) to a circuit board or crimped to a wire.

Note: Plated Brass parts need a barrier plate to prevent zinc diffusion, 50µ" min. nickel or 100µ" min. copper is recommended by ASTM B 545 and 579. ASTM B 488 also recommends a 50µ" min. nickel barrier plate beneath gold to prevent copper diffusion inherent with all copper alloy products.

†RoHS-2 directive 2011/65/EU, exemption 6c allows up to 4% lead as an alloy agent in copper.

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

INSULATOR MATERIAL:

PCT Polyester (Injection Molded)

Properties:

- Polyester (30% glass filled), High Temp., (black). Flammability rating UL 94 V-0
- 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 with HDT above 446°F (230°C) are considered suitable for “eutectic” reflow soldering. For “lead-free” reflow soldering, choose materials with an HDT above 500°F (260°C). PCT is the standard plastic used with RoHS “lead-free” plated pins.

ADDITIONAL NOTES & 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. 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.

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190 Pine Hollow Rd , Oyster Bay, NY 11771, USA
Phone: 516.922.6000