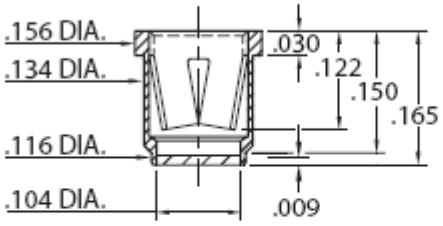
MILL-MAX MAXIMUM CONNECTIONS

DATA SHEET

Product Number: 5291-0-43-80-08-27-40-0

With Organic Fibre Plug® Solder Barrier



5291-0-XX-XX-08-XX-40-0
Solder mount in Ø.139±.003 PTH.
#08 Contact for Ø.084-.102 pins.
Also available on 16mm wide carrier tape: 1,700 parts per 13" reel.

Description:

5291 - Organic Fibre Plug Receptacle
Accepts .084-.102 diameter leads.

Packaging:

Packaged in Bulk

Mill-Max Part Number	Shell Plating	Contact Plating	RoHS Compliant
5291-0-43-80-08-27-40-0	200 - 300 µ" Tin (matte finish) over Nickel	30 µ" Gold over Nickel	RoHS 2002/95/EC

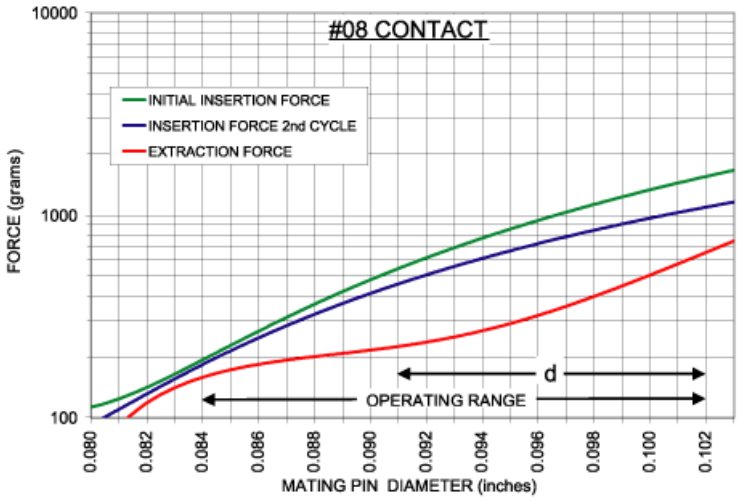
CONTACT:

Contact Used: #08, Standard 6 Finger Contact
Current Rating = 18 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.

SHELL MATERIAL:

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.