DATA SHEET

0342 - Receptacle With No Tail

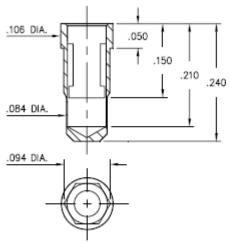
Accepts .059-.063 diameter leads.

Description:

Packaging:

Packaged in Bulk

Product Number: 0342-0-15-15-42-27-10-0



0342-0-15-XX-42-XX-10-0

Hex press-fit in .090±.002 plated thru hole

Mill-Max Part Number	Shell Plating	Contact Plating	RoHS Compliant

0342-0-15-15-42-27-10-0

10 $\mu\text{"}$ Gold over Nickel

30 $\mu\text{"}$ Gold over Nickel



CONTACT:

Contact Used: #42, Power Contact

Current Rating = 50 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 °C; 70% of stress remains after 1,000 hours @ 200 °C

†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.

Mechanical Data #42 Contact:

Insertion/Extraction Force with a Ø.061 (nominal) pin:

First	Cycle	2nd & Subsequent Cycles		
Insertion Force	Extraction Force	Insertion Force	Extraction Force	
20N	6N	10N	6N	

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

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.