MAXIMUM SOLUTIONS

Mill-Max Now Offers Nine Sizes of Beryllium Nickel Spring Contacts for High Temperature Applications.



Mill-Max offers nine contacts (#19, #24, #25, #26, #27, #33, #38, #56,#58) made from Beryllium Nickel Alloy 360 (UNS N03360.) Contacts made from Beryllium Nickel are recommended for receptacle applications where the operating temperature exceeds 150°C. Some common applications for these contacts are found in: the oil industry for down-hole wells and exploration; "Test & Burn-in" sockets for stress testing electronic devices (i.e. chips;) high temperature commercial lighting fixtures (e.g. Halogen lamps) and autoclave sterilization for the medical industry. BeNi is suitable for continuous use up to 250°C, and periodic use up to 350°C, without significant loss of its spring properties (see graph.) For use below 150°C, Mill-Max has an extensive range of

29 standard Beryllium Copper (Alloy 172) spring contacts.

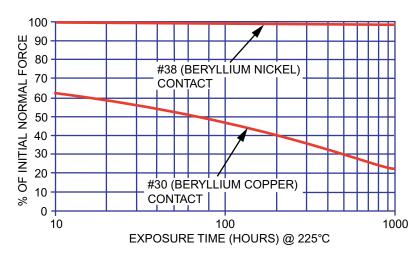
These nine contacts are available assembled in a wide range of standard precision-machined receptacles (discrete sockets for printed circuit boards) and various types of socket assemblies (DIP, SIP etc.) These contacts are the internal spring member of the highly reliable, two piece Mill-Max receptacle and are not sold as individual items.

Properties of BeNi Alloy 360

Chemical composition: Ni 97.6%, Be 1.9%, Ti 0.5% Modulus of Elasticity: 27-30x106 psi Tensile Strength: 245x10³ psi min. Yield Strength (0.2% offset): 200x10³ psi min. Hardness: 49 Rockwell C

Contact Material and Stress Relaxation at High Temperature

Mill-Max contacts are made from either beryllium copper or beryllium nickel that has been heat treated to achieve ultimate spring properties. The graph illustrates how beryllium copper loses its spring properties over time at a high temperature (225°C). Thus, for burn-in applications and continuous operation above 150°C, beryllium nickel should be substituted for beryllium copper.



(11/12 -- PR548)

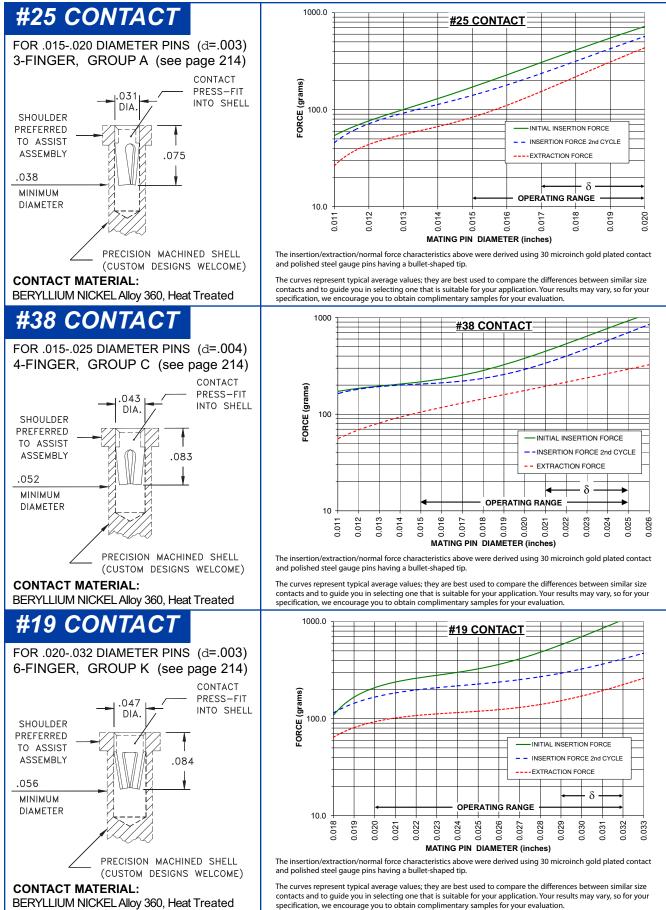
Mill-Max Mfg. Corp. • 190 Pine Hollow Road, Oyster Bay, NY 11771 516-922-6000 • Fax: 516-922-9253 • www.mill-max.com



CONTACT DATA





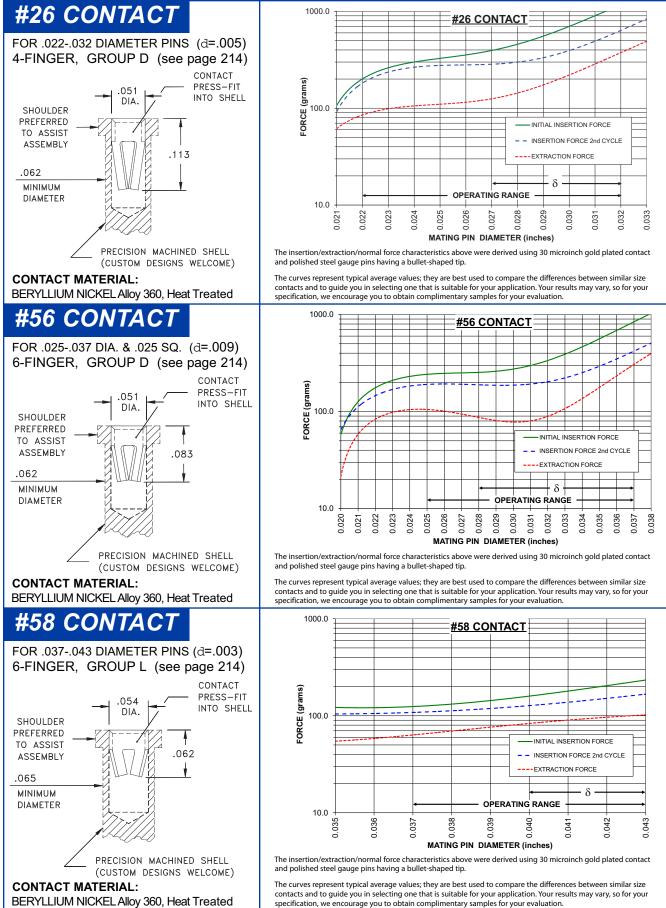




CONTACT DATA





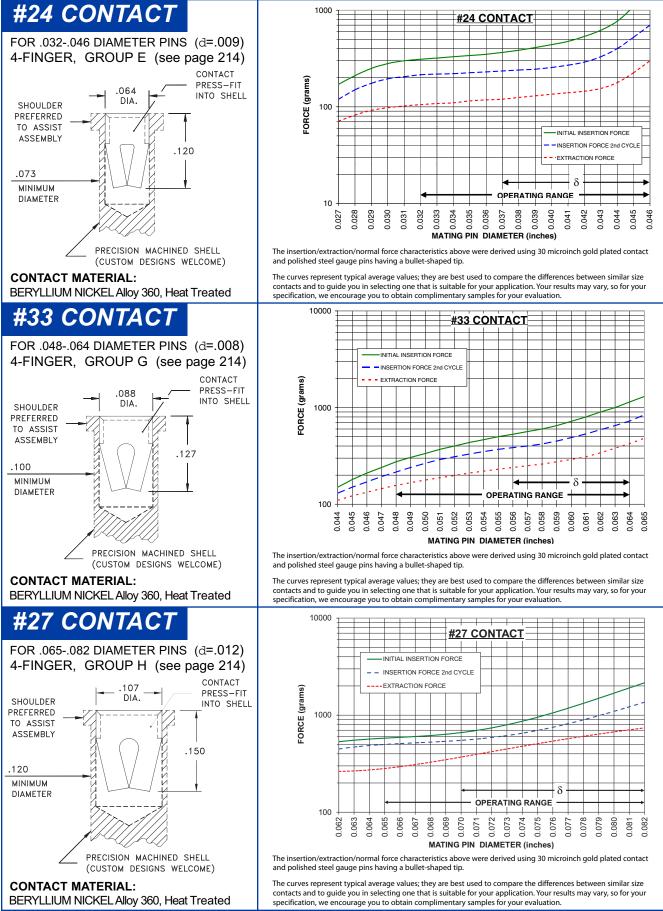






CONTACT DATA







Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Mill-Max:

<u>0348-0-33-15-34-80-10-0</u> <u>0348-0-33-15-24-27-10-0</u> <u>0673-0-15-15-38-27-10-0</u> <u>8637-0-15-15-25-27-10-0</u> <u>0470-0-15-15-38-27-04-0</u> <u>0317-0-15-15-24-27-10-0</u> <u>0372-0-15-15-33-27-10-0</u> <u>0307-0-15-15-38-27-04-0</u> <u>0252-0-15-15-38-27-10-0</u> <u>1001-0-15-15-38-27-04-0</u> <u>0303-0-19-15-26-27-10-0</u> <u>0322-0-15-15-24-27-10-0</u> <u>0680-0-15-15-38-27-10-0</u> <u>0348-0-33-15-34-14-10-0</u> <u>0303-0-19-15-16-14-10-0</u>