

The CB Series "PogoPin" Connector

The Glenair Compact Bayonet (CB) Connector is an extended durability harsh environment connector for tactical communications equipment. The CB connector is a push-to-mate, turn-to-lock miniature bayonet connector with spring-loaded contacts. The "PogoPin" contact system offers improved resistance to damage and contamination compared to conventional pin-and-socket contacts. Plug connectors have an EMI grounding spring for improved shielding. Solder cup contacts accept up to #20 AWG stranded wire, and are rated for up to 2.5 A. continuous current. Voltage rating is 500 VAC at sea level.



Qualified for NATO Soldier Systems

Tactical communications gear must survive the rigors of hostile environments from the Arabian desert to the Arctic circle. The connectors used on handsets and headsets are mated and de-mated thousands of times over the life of the radio. The CB connector conforms to standards established by the Deutsches Institut für Normung (DIN). These standards, VG95351 for the seven pole version and VG96934 for the 10 pole version, are comparable to U.S.A. Department of Defense Military Specifications. These VG specs require rigorous qualification testing, and the Glenair CB Series "PogoPin" Connector has successfully been tested and approved for use in VG qualified tactical equipment.

VG Standards and Glenair Solutions

For applications bound by VG standards, we offer a complete range of qualified products beginning on page 26. It is important to note that the VG95351 and VG96934 standard covers only a limited range of connector styles, options and configurations. The Glenair CB Series with its broader range of backshells, molded cablesets and other innovations can be more flexibly applied to a wider range of applications. Whatever your requirement, Glenair is positioned to support both small and large volume orders with outstanding product quality and reduced leadtimes.



5,000 Mating Cycles Guaranteed

The CB Series "PogoPin" Connector offers better durability and superior resistance to damage compared to other contact systems. Typical mil spec pin-and-socket contact systems specify 500 to 2000 cycles of mating. Small diameter tubular socket contacts can entrap dirt and debris, degrading performance and reducing service life. Bent pins can lead to connector failure. The CB Series "PogoPin" Connector eliminates these problems. The spring-loaded contacts are self-cleaning and cannot be bent or easily damaged from mishandling.

Smaller and Lighter

New small form factor military radios need smaller connectors. The CB Series 10 pin jam nut receptacle weighs just 11 grams compared to 29 grams for the 6 pin "UG" style audio connector found on many tactical radios. The diameter is reduced by 30%. And unlike "UG" audio connectors, the CB meets requirements for EMI shielding.



CB 10 Pin (left) Compared to MIL-DTL-55116 6 Pin Connector (right)

Waterproof and EMI Protected

CB Series connectors are rated IP68 and are suitable for continuous immersion in water. These connectors are tested to withstand 0.4 bar (5.8 psi) overpressure for 48 hours. The connector interface is protected with a piston-type O-ring. Connectors are fully sealed to prevent water ingress in an unmated (open face) condition.

Plug connectors feature a beryllium copper ground spring. This spring provides low shell-to-shell resistance for excellent EMI shielding effectiveness.

All dimensions in millimeters (mm). Information subject to change without notice.

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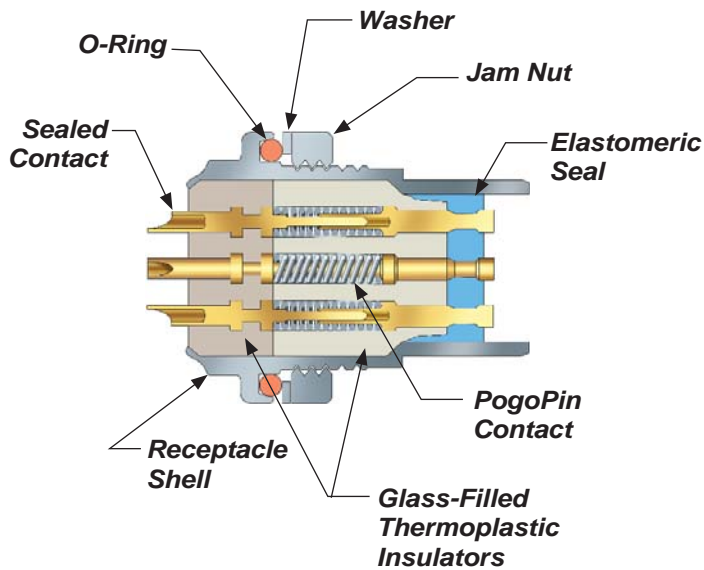
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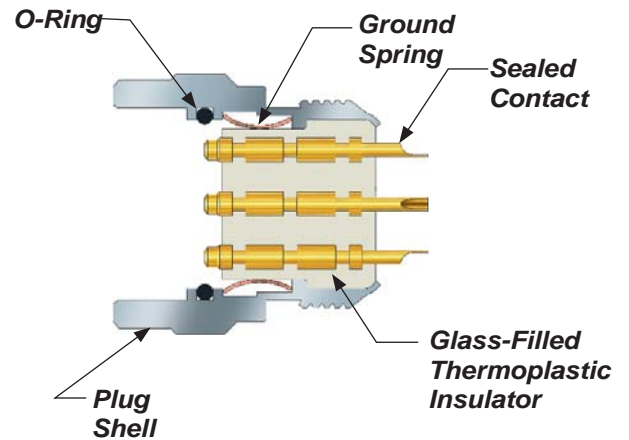
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E-Mail: sales@glenair.com

Receptacle



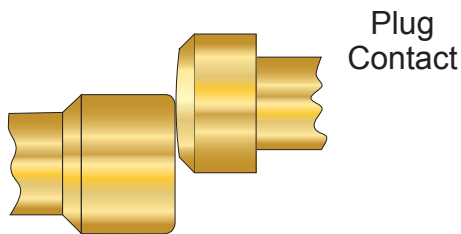
Plug



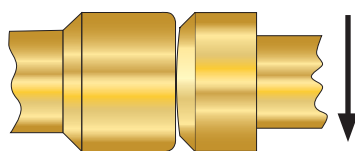
Self-Cleaning "Wiping" Contacts

Hostile environments can lead to a buildup of surface films and contaminants, resulting in unacceptably high contact resistance. The CB Series "PogoPin" contact system's wiping action effectively removes surface contamination. The plug contact, when initially mated, is slightly off-axis to the receptacle spring pin. When the plug is rotated to lock the bayonet pins, the plug contact slides over the receptacle contact. The plug contact has a slight radius which increases the normal force and improves the wiping action. Hard gold plating prevents excessive wear.

Initial Mating



Final Position



CB Series Connector Accessories

A broad range of optional boots, backshells, covers and banding adapters are available for the CB Series.

