

## GENERAL DESCRIPTION

Triax systems were designed primarily to reduce noise levels in a system along with providing an isolated ground. The TRB series has a bayonet locking mechanism as designed on the BNC series (bayonet and lug configurations vary). The TRB series is non-constant impedance and has the appearance of a BNC but incorporate a third conductor. This series also has a state of the art clamping construction and weatherproof sealing features which ensures excellent termination to various twinaxial and triaxial cables.

## MATERIALS

Bodies & Other Parts: Brass per ASTM B16 or equivalent.  
 Female Contacts: Beryllium Copper per ASTM B196 or equivalent.  
 Male Contacts: Brass per ASTM B16 or equivalent.  
 Insulators (Dielectric): PTFE Fluorocarbon per ASTM D1710 or equivalent.  
 Gaskets: Silicone rubber per ZZ-R-765, Class II, Grade 50.

## ELECTRICAL

Impedance: Non-Constant  
 Frequency Range: 500 MHz  
 Insulation Resistance: 5,000 Megohms min.  
 Voltage Rating: 400 VRMS  
 Dielectric Withstanding: 1,200 VRMS at sea level  
 Contact Resistance:  
     Center Contact: 2.0 Milliohms  
     Intermediate Contact: 0.5 Milliohms  
     Outer Contacts: 0.5 Milliohms

## ENVIRONMENTAL

Temperature rating: -65°C to +165°C  
 Vibration: MIL-STD-202, Method 204  
 Shock: MIL-STD-202, Method 213  
 Thermal Shock: MIL-STD-202, Method 107  
 Corrosion (Salt Spray): MIL-STD-202, Method 101  
 Moisture Resistance: MIL-STD-202, Method 106

## PLATING OPTIONS

Gold: Per MIL-G-45204, Type II, Grade C  
 Nickel: Per QQ-N-290, Class II  
 Silver: Per QQ-S-365, Type II, Grade A

## MECHANICAL

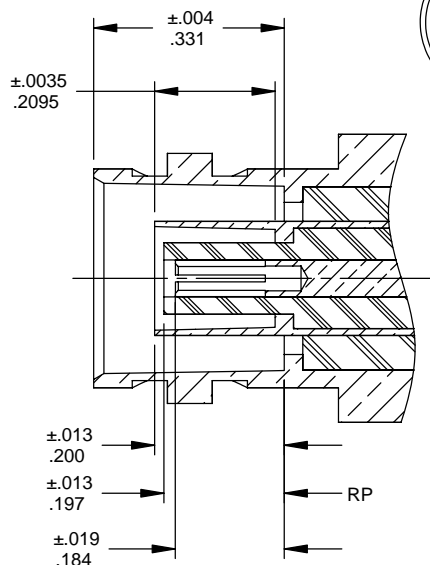
Cable retention: .200-.325 OD: 40 lbs. min.  
 Center Contact Retention: 6 lbs. min., axial force  
 Mating Cycles: 500 min.

## DESIGN IN ACCORDANCE WITH

US MIL-PRF-49142  
 US MIL-STD-348  
 INTELLICONNECT: ES101, ES103

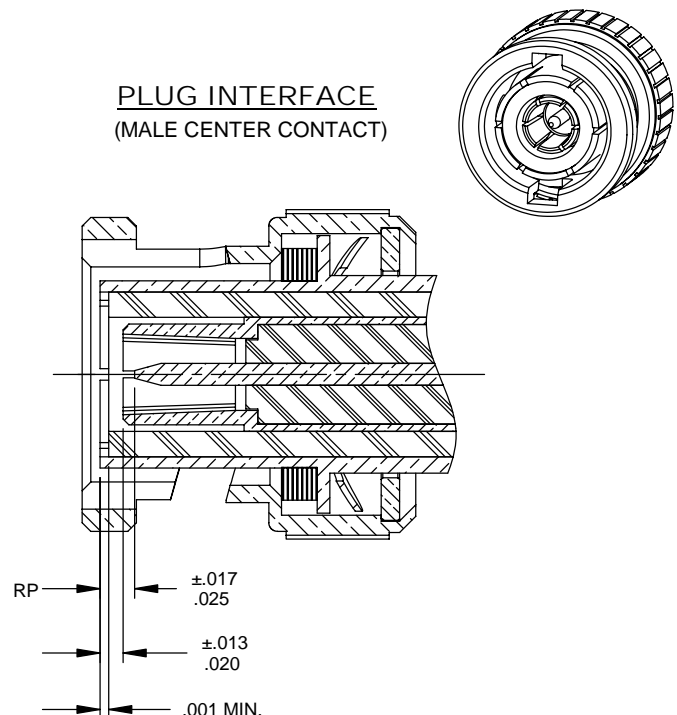
NOTES: 1. ILLUSTRATION REFLECTS A (2) LUG DESIGN FOR REFERENCE. OTHER CONFIGURATIONS ARE AVAILABLE.

### JACK INTERFACE (FEMALE CENTER CONTACT)



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### PLUG INTERFACE (MALE CENTER CONTACT)



\*These specifications are typical and may not apply to all connectors. Please contact the factory for detailed specifications for individual connectors. For clarity, interface illustrations are not drawn to scale. All dimensions are in inches. Interface dimensions are designed per documents above.