IntelliConnect *"Intelligent Connections"*

* SERIES TRT - TRIAX

GENERAL DESCRIPTION

Triax systems were designed primarily to reduce noise levels in a system along with providing an isolated ground. The TRT series has a 7/16-28 thread coupling mechanism as designed on the TNC series. The TRT series is non-constant impedance and has the appearance of a TNC but incorporates 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.

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

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: 0.2 Milliohms

MECHANICAL

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

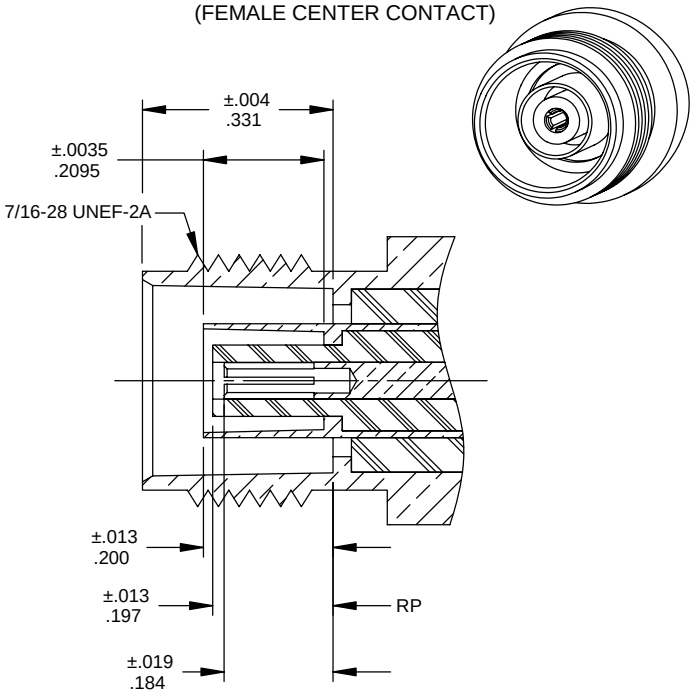
ENVIRONMENTAL

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

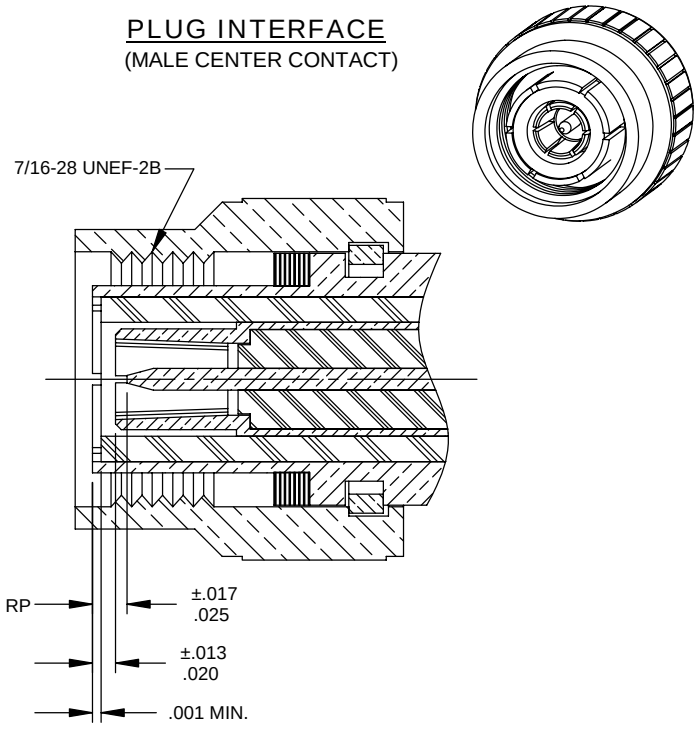
DESIGN IN ACCORDANCE WITH

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

JACK INTERFACE
(FEMALE CENTER CONTACT)



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.*