IntelliConnect *"Intelligent Connections"*

* SERIES 7/16

GENERAL DESCRIPTION

The 7/16 connector series demonstrates excellent performance for return loss, intermodulation distortion and power handling. These connectors have a M29 X 1.5 metric thread coupling mechanism, along with waterproof specifications for most applications. 7/16 connectors are ideal for radio base stations and broadcast communications applications where vibration resistance and environmental protection is critical.

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
TRI-M3: Other Trade names = "White Bronze", "Succo"

ELECTRICAL

Impedance: 50 Ohms Nominal
Frequency Range: DC-8.3 GHz
Insulation Resistance: 10,000 Megohms min.
Voltage Rating: 2,700 VRMS
Dielectric Withstanding: 4,000 VRMS at sea level
Voltage Standing Wave Ratio (VSWR): 1.30 max.
Contact Resistance:
Outer Contact: 1.5 Milliohms
Center Contact: 0.4 Milliohms

MECHANICAL

Coupling Sleeve Retention Force: 225 lbs. min.
Coupling Proof Torque: 310 in.- lbs. max.
Center Contact Retention: 45 in- lbs. min.
Mating Cycles: 500 min.

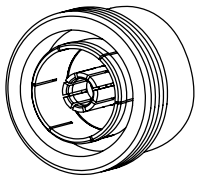
ENVIRONMENTAL

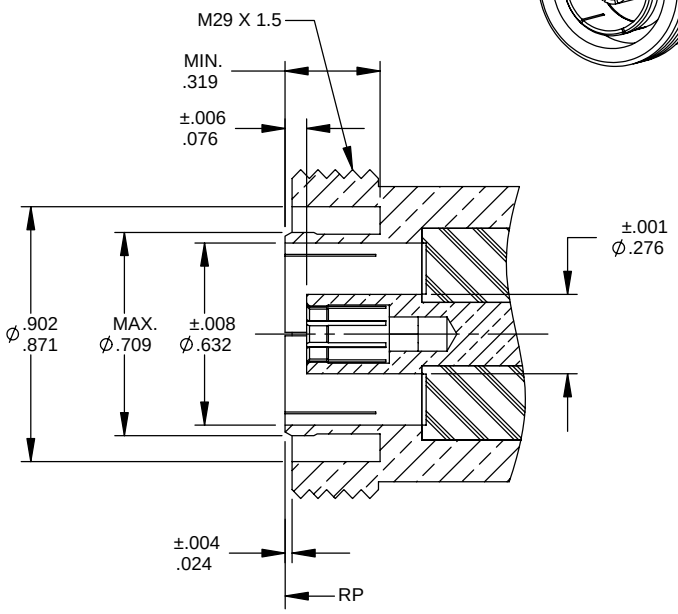
Temperature rating: -65°C to +165°C
Vibration: MIL-STD-202, Method 204
Shock: MIL-STD-202, Method 213
Thermal Shock: MIL-STD-202, Method 107
Corrosion (Salt Spray): MIL-STD-202, Method 101
Moisture Resistance: MIL-STD-202, Method 106

DESIGN IN ACCORDANCE WITH

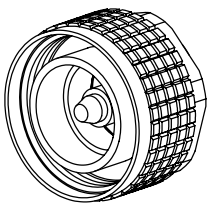
IEC 169-4
DIN 47223
CECC: 22 190
VG 95250
INTELLICONNECT: ES101, ES103

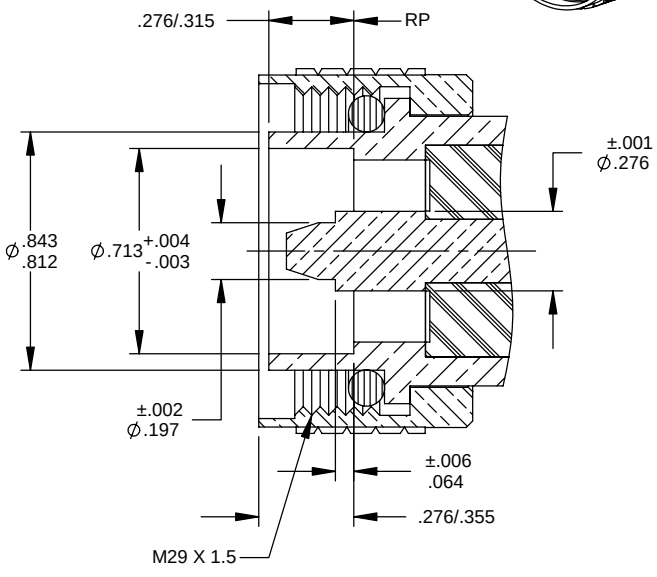
JACK INTERFACE
(FEMALE CONTACT)





PLUG INTERFACE
(MALE 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.*