

IntelliConnect

(WATERPROOF) SERIES SMB

GENERAL DESCRIPTION

This miniature connector series is designed to be compatible with the small semi-rigid and flexible cables such as RG316, RG174 and RG196. In addition, other connectors in the series can accommodate PCB, surface, edge and bulkhead configurations. This series is designed with a snap on mechanism. They are mated and unmated by a straight pull which makes them useful in areas that are inaccessible to normal mating action. The plugs have female contacts while the jacks have male contacts.

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: 50 Ohms Nominal
Frequency Range: DC-4 GHz
Insulation Resistance: 1,000 Megohms min.
Voltage Rating: 335 VRMS
Dielectric Withstanding: 750 VRMS at sea level
Voltage Standing Wave Ratio (VSWR): 1.30 +.04 (f) GHz max.
Contact Resistance:
Outer Contact: 1.0 Milliohms
Center Contact: 6.0 Milliohms

ENVIRONMENTAL

Waterproofing: Meets IP67 & IP68 per IEC 60529, tested to a 10 meter water depth in an unmated condition for a duration of 4 hours.
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

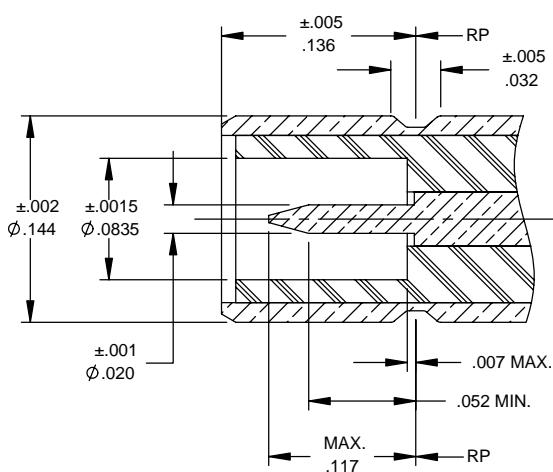
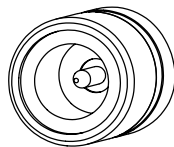
MECHANICAL

Force to Engage: 14 lbs. max.
Force to Disengage: 2 lbs. min.
Mating Cycles: 500 min.

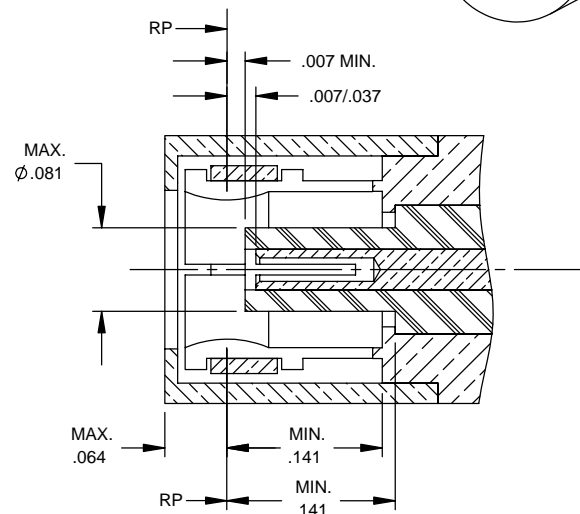
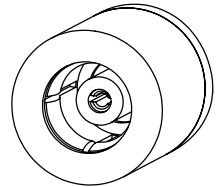
DESIGN IN ACCORDANCE WITH

US MIL-PRF-39012, MIL-STD-348
CECC: 22 130
IEC: 169-10
IEC: 60529
INTELLICONNECT: ES101, ES103

JACK INTERFACE
(MALE CONTACT)



PLUG INTERFACE
(FEMALE CONTACT)



All dimensions shown are in inches and [millimeters]. Technical data provided herein is subject to change without notice.
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