

IntelliConnect

A Different Kind of Interconnect Solutions Provider

Product Data Sheet

SERIES ABMS - RUGGED WATERPROOF SUB-MINIATURE CONNECTORS

Typical Applications – Medical/Audio/SCADA

GENERAL DESCRIPTION

This micro miniature size connector series is similar to, and offers the same weight & space benefits of, the standard MCX connector series, but with the added features of being fully waterproof as well as a more rugged design. This connector series offers a quick snap-on locking mechanism and is used with small, semi-rigid and flexible cables. These connectors can also accommodate various PCB, surface, edge, press fit and bulkhead mount configurations. This connector is used in FDA approved medical Applications and is guaranteed for 3000 mating cycles.



MATERIALS/ PLATING OPTIONS

Bodies & Other Parts: Beryllium Copper per ASTM B196. Plating: Gold: Per MIL-G-45204, Type II, Grade C

Female Contacts: Beryllium Copper per ASTM B196. Plating: Nickel Per QQ-N-290, Class II

Male Contacts: Brass per ASTM B16. Plating: Silver: Per QQ-S-365, Type II, Grade A

Insulators (Dielectric): PTFE Fluorocarbon per ASTM D1710 or equivalent.

Gaskets: Silicone Rubber per AA59588 or equivalent.

MECHANICAL SPECIFICATION

Nominal Engagement/Disengagement Force:

Engagement: 2.5 lbs max., 1.5 lbs min.

Disengagement: 2.0 lbs max., 2.0 lbs min.

Mating Cycles: 3,000 min.

ELECTRICAL SPECIFICATION

Impedance: 50 Ohms

Frequency Range: DC-6 GHz

Insulation Resistance: 5,000 Megohms min.

Voltage Rating: 335 VRMS

Dielectric Withstanding: 1,000 VRMS at sea level

Voltage Standing Wave Ratio (VSWR): 1.30 max.

Contact Resistance:

Outer Contact: 1.0 Milliohms

Center Contact: 5.0 Milliohms

ENVIRONMENTAL

Waterproofing: Meets IP68 per IEC 60529, tested to a 20 meter water depth in an unmated condition for a duration of 4 hours.

Temperature rating: -65°C to +165°C

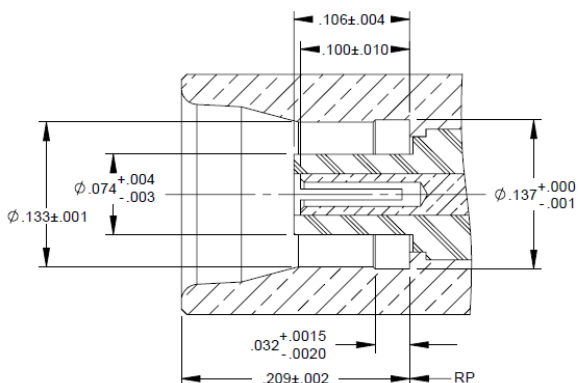
Vibration: MIL-STD-202, Method 204

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

JACK INTERFACE
(FEMALE CONTACT)



PLUG INTERFACE
(MALE CONTACT)

