

# IntelliConnect

A Different Kind of Interconnect Solutions Provider

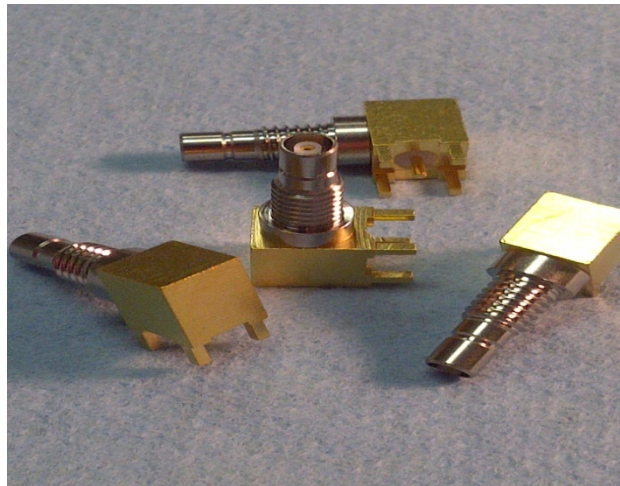
## Product Data Sheet

### SERIES SMB SUB-MINIATURE CONNECTORS

*Typical Applications – Telecoms, Safety, Test, Marine, SCADA and Telematics*

#### GENERAL DESCRIPTION

This miniature connector series is designed to be compatible with 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/ Plating Options

Bodies & Other Parts: Brass per ASTM B16 Nickel: Per QQ-N-290, Class II, Silver: Per QQ-S-365, Gold:  
Per MIL-G-45204, Type II, Grade C

Female Contacts: Beryllium Copper per ASTM B196 or equiv. Gold: Per MIL-G-45204, Type II, Grade C, Silver: Per QQ-S-365, Type II, Grade A

Male Contacts: Brass per ASTM B16 or equivalent. Gold: Per MIL-G-45204, Type II, Grade C, 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

Force to Engage: 14 in-lbs. max.

Force to Disengage: 2 in-lbs. min.

Mating Cycles: 500 min.

## ELECTRICAL SPECIFICATION

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 max.

Contact Resistance: Outer Contact: 1 Milliohms, Center Contact: 6 Milliohms

## ENVIRONMENTAL SPECIFICATION

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

## DESIGNED IN ACCORDANCE WITH:

US MIL-PRF-39012, MIL-STD-348

IEC: 169-15, CECC: 22 110

INTELLICONNECT: ES101, ES103

