

# IntelliConnect

A Different Kind of Interconnect Solutions Provider

## Product Data Sheet

### SERIES 5.0mm Nim Camac Push-Pull - WATERPROOF CONNECTORS

*Typical Applications – Mil-Aero, Nuclear, Radar, Marine, SCADA and Telematics*

#### **GENERAL DESCRIPTION**

This miniature connector series is designed for various applications. Featuring a quick-disconnect quick mate system, designed in accordance with *NIM-CAMAC CD/N549* standard.

Push -Pull Waterproof Connectors and Adaptors are specified to IP68/NEMA 6. Minimum 10m depth for 4 hours.



#### **MATERIALS/ Plating Options**

Bodies & Other Parts: Brass per ASTM B16. Nickel: Per QQ-N-290, Class II, Silver: Per QQ-S-365, Type II, Grade A, 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 and Disengage: 0.53 in-lbs. nom.

Engagement: 0.5lbs nom

Dis-engagement Force: 1.0 lbs. nom

Mating Cycles: 3000 min.

### ELECTRICAL SPECIFICATION

Impedance: 50 Ohms Nominal

Frequency Range: DC-4 GHz

Insulation Resistance: 10,000 Megohms min.

Voltage Rating: 500 VRMS

Dielectric Withstanding: 3000 VRMS at sea level

Voltage Standing Wave Ratio (VSWR): 1.30 max.

Contact Resistance: Outer Contact:3.0 Milliohms, Center Contact: 3.0 Milliohms

### ENVIRONMENTAL SPECIFICATION

Waterproofing: Meets IP68 per IEC 60529 / NEMA6, 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

### DESIGNED IN ACCORDANCE WITH:

NIM-CAMAC CD/N549

IEC: 60529

INTELLICONNECT: ES101, ES103, ES104

