



7/16 N male connector for 1/2 in radiating cable, field installation with reliable connection.

General Specifications

Connector Type	Field installation
Connector Interface	N male
Suitable Cable	1/2-inch radiating cable
Mechanical Standard	IEC 61169-16

Electrical Specifications

Impedance	50 ohms
Frequency	DC - 6GHz
Return Loss	≤ -26 dB@DC-3GHz ≤ -23 dB@3-4GHz ≤ -21 dB@4-6GHz
Insertion Loss	≤ 0.05 dB
Insulation Resistance	10 G Ω
Center Contact Resistance	≤ 0.4 M Ω
Outer Contact Resistance	≤ 1.5 M Ω
Working Voltage	500 V
Power Handling	1800 W@1GHz
Intermodulation, 900MHz	-161 dBc@2 \times 43dBm Typical -155 dBc@2 \times 43dBm Maximum

Parts Material

Inner Conductor	Brass
Inner Conductor Socket	Tin bronze
Insulator	PTFE/TPX
Body & Outer Conductor	Brass
Gasket	Silicon rubber
Nut	Brass

Surface Plating Treatment

Inner Conductor	Silver Ag3 plated
Inner Conductor Socket	Silver Ag3 plated
Body & Outer Conductor	Tri-metal CuSnZn3 plated
Nut	Nickel Ni3 plated

Mechanical Specifications

Mating Cycles	≥500 times
Coupling Nut Retention	≥1000 N
Coupling Torque (Recommended)	≥25 to 30 Nm
Proof Torque	≤35 Nm
Mechanical Shock Test Method	MIL-STD-202, Method 213, Test Condition D
Vibration Test Method	MIL-STD-202, Method 204, Test Condition A

Environmental Specifications

Installation Temperature	-20 °C to +55 °C
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-45 °C to +85 °C
Relative Humidity	5% - 95%
IP Rating	Mated IP68, 1m, 1.5hrs, 20 deg-C

Regulatory Compliances

ISO 9001:2015	Compliant
ROHS	Compliant
China RoHS	Compliant
UK RoHS	Compliant
REACH	Compliant
EU/CE	Compliant

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