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TECHNOLOGY GROUP

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FILTER BY

N-TYPE CONNECTOR SERIES

N-Type connectors are designed to satisfy the need for a durable, weatherproof, medium-size RF connector with consistent performance through 11 GHz. Our N-Type connectors feature threaded coupling mechanisms and are fully interchangeable with N-Type connectors made to the MIL-C-39012 specification. These connectors are used in all systems where excellent RF and mechanical performance is critical.



Related Products

N-Type Adapters
N-Type Accessories
N-Type Cable Assemblies

FEATURES AND BENEFITS

- Broad line of military, industrial and commercial grade products available
- Excellent RF performance from DC to 11 GHz
- Threaded coupling mechanism ideal for vibration resistance

APPLICATIONS

- Antennas
- Base stations
- Instrumentation
- Satellite systems
- WLAN
- Radar systems
- Broadcast
- Surge protection

N-TYPE SPECIFICATIONS

Electrical

Impedance	50 Ohm
Frequency Range	0-11 GHz
VSWR	
M30912 Straight Connectors 0-11 GHz	1.30 Max
M30912 Right Angle Connectors 0-11 GHz	1.35 Max

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Dielectric Withstanding Voltage	2500 VRMS
Voltage Rating	1500 volts peak
Insulation Resistance	5000 MΩ min
Contact Resistance	
Outer Contact	0.2 mΩ
RF Leakage	-90 dB min @ 3 GHz
Insertion Loss	0.15 dB max @ 10 GHz

Environmental

Temperature Range:	
TFE Insulation	-65°C to +165°C
Copolymer of Styrene	-55°C to 85°C
Weatherproof	All series N with gaskets are weatherproof
Hermetic Seals	Pass helium leak test of 2 x 10^{-8} cc/sec
Pressurized Shock	Compressed seal Mil-STD-202, Method 213
Vibration	Mil-STD-202, Method 204 (test cond. D)
Moisture Resistance	MIL-STD-202 Method 106
Corrosion	Mil-STD-202, Method 101 (test cond. B)
Temperature Cycling	Mil-STD-202, Method 102 (test cond. D)
Altitude	MIL-STD-202 Method 105 (test cond. C)

Mechanical

Mating	5/8-24 threaded coupling
Cable Affixment (Braid or Jacket):	
All Crimps	Hex braid crimp
Clamps	Screw-thread nut and braid clamp
Cable Affixment (Center Conductor):	
Crimps	Crimp or solder
All Others	Solder only
Captivated Contact:	
All Crimps	Yes
Others	Where specified
Cable Retention	
Crimps	60-120 lbs
Clamps	30-70 lbs

CORRUGATED TYPE N SPECIFICATIONS

Electrical

Impedance	50 Ohm
Frequency Range	11.0 GHz
Return Loss (Freq. GHz)	
1-2GHz	33 dB
2-3GHz	28 dB
Operating Voltage	707 VRMS max

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Dielectric Withstanding Voltage	2000 VDC
Peak Power	10kW max
Avg. Power	.60kW maz
Insulation Resistance	5000 MΩ
Shielding Effectiveness	125 dB min
3rd Order IM Product, typical	-125 dBm (-168 dBc)
Insertion Loss	.05 freq GHz

Environmental

Temperature Range	
Operating	-40ºC to +150ºC
Storage	-70ºC to 100ºC
Thermal Shock	Mil-STD-202, Method 107 (test cond. A)
Immersion	IEC 529, IP68
Vibration	Mil-STD-202, Method 204 (test cond. B)
Corrosion	Mil-STD-202, Method 101(test cond. B)
Mechanical Shock	MIL-STD-202 Method 213 (test cond. I)

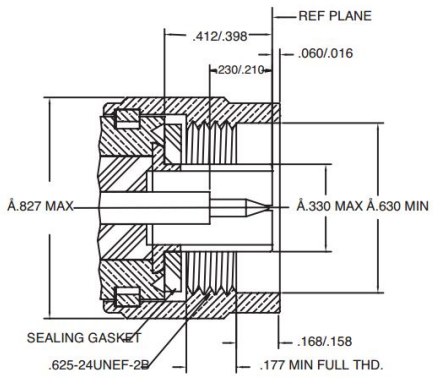
Mechanical

Mating	MIL-STD-348
Inner Attachment Method	Solder or Captivated
Outer Attachment Method	Compression
Assembly Torque	18/22 lb-ft (25/30 N-m)
Coupling Torque	15.00 lb-in (1.70 N-m)
Coupling Nut Retention Force	100.00 lbs (444.80 N)
Connector Durability	500 cycles, 12 cycles/min

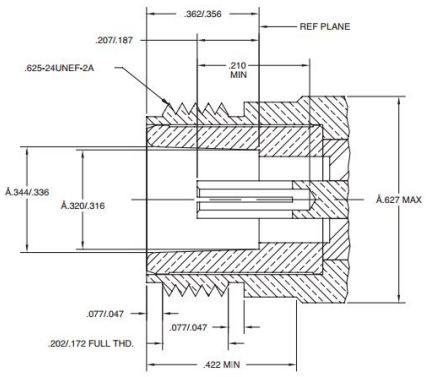
These characteristics are typical and may not apply to all connectors.

INTERFACE DIMENSIONS

Plug



Jack



AMPHENOL RF

COMPANY PROFILE

QUICK LINKS

DISTRIBUTOR INVENTORY

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