

Description

N series coaxial connectors are medium size units which have constant 50 ohm impedance, and provide excellent radio frequency performance up to 11 GHz.

Applications

- · Antenna
- · Base Stations
- · Microwave Components (Power Splitters & Combines, Filters, Diplexors)
- · Transmitters
- · Broadcast
- · Receivers
- · Radar
- · Test & Measurement
- · Instrumentation
- ·LANs

Features

- · Accommodates a wide range of popular coaxial cables. Provides threaded coupling mechanisms.
- · Available in crimp terminations to provide for low cost installations.

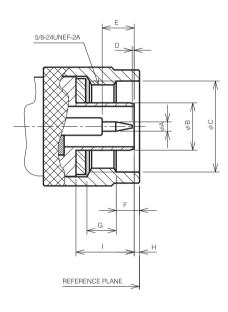
Specification N 50 ohm 0-12.4 GHz

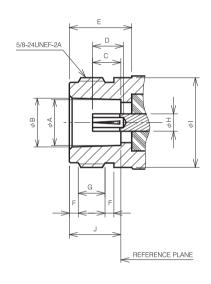
N Series coaxial connectors are medium-sized, threaded coupling connectors designed for use from DC to 12.4 GHz Their consistently low broadband VSWR have made them popular over the years in many applications. The N series connector is impedance matched to 50 ohm cables.

Cable terminations are available in crimp, clamp and solder configurations. The threaded coupling ensures proper mating in applications where shock and extreme vibration are design considerations.

N connectors are used in aerospace, broadcast audio and video applications as well as many microwave components such as filters, couplers, dividers, amplifiers and attenuators to name a few.

Interface Mating Dimensions:





PLUG

Letter	Millimeters(Inches)		
Letter	Minimum	Maximum	
Α	1.60 (0.063)	1.68 (0.066)	
В	7.95 (0.313)	8.03 (0.3158)	
С	16.00 (0.630)	00 (0.630) -	
D	0.08 (0.003)	-	
Е	5.33 (0.210)	5.84 (0.230)	
F	4.01 (0.158)	4.27 (0.168)	
G	4.50 (0.177)	-	
Н	0.41 (0.016)	1.52 (0.060)	
I	10.11 (0.398)	10.46 (0.412)	

JACK

Letter	Millimeters(Inches)		
Lettel	Minimum	Maximum	
Α	8.03(.316)	8.13(.320)	
В	8.53(.336)	8.74(.344)	
С	4.75(.187)	5.26(.207)	
D	5.33(.210)	-	
Е	10.72(.422)	-	
F	1.19(.047)	1.96(.077)	
G	4.37(.172)	5.13(.202)	
Н	3.00(.118)	3.15(.124)	
ļ	-	15.93(.627)	
J	9.04(.356)	9.19(.362)	

N Series

Electrical:			
Impedance	50 ohm	75 ohm	
Frequency Range	0 to 11 GHz	0 to 1.5 GHz	
VSWR	1.15 + 0.015 x f GHz max		
Voltage Rating	1500 volts rms max		
	* RG-58,141,142,223→500 volts rms max		
	* RG-174,188,316→335 volts rms max		
Dielectric withstanding Voltage	2,500 volts rms max		
	* RG-58,141,142,223→1000 volts rms max		
	* RG-174,188,316→750 volts rms max		
Contact resistance	center contact=1.0 milliohms max		
	outer contact=2.0 milliohms max		
RF Leakage	-(90-f GHz) dB min		
Insertion Loss	0.05dB max X √ f GHz		
Insulator resistance	5,000 Megohms min		

Mechanical & Environmental		
Mating	5/8"-24 threaded coupling	
Durability	500 matings	
Coupling Nut Retention	100 lbs min	
Cable Retention	RG-58,141,142,223*40 lbs min	
	RG-59,62A,210*40 lbs min	
	RG-174,188,316*20 lbs min	
	RG-8A, 9B, 213, 214*80 lbs min	
Temperature Range	-65°C to 165°C	
Vibration	MIL-STD-202 Method 204 test Cond.B.	
Salt Spray	MIL-STD-202 Method 101 test Cond.B.	
Temperature Cycling	MIL-STD-202 Method 107 test Cond.B.	

Material		
	Material	Plating
Connector Body	Brass	Gold or Silver or Nickel
Center Contact	Male: Brass	Gold
	Female: Brass, Phosphor Bronze or	Gold
	Beryllium-Copper	
Insulation	Teflon or Derlin	None
Gasket	Silicone Rubber, Rubber	None
Crimp Ferrule	Annealed Copper or Brass	Same as Body