

Features

- For use with 1/2" COAX-PL plenum-rated coaxial cable
- Low PIM (Passive Intermodulation) rated for optimal RF performance
- No additional O-rings, sealant, or gel required for installation
- Fast and easy to install using the AUTOPREP cable preparation tool
- Designed for secure, reliable, and repeatable field terminations
- Rated for demanding environments: IP68 immersion and MIL-STD durability tested



Description

The NFP connector is an N-Female interface engineered for use with Potter's COAX-PL 1/2" plenum-rated coaxial cable. It delivers exceptional RF performance with minimal insertion loss and low passive intermodulation (PIM), making it ideal for high-frequency signal transmission.

Installation is simplified with no need for additional O-rings or gels, and the connector is compatible with the AUTOPREP cable preparation tool to ensure fast, clean, and consistent terminations in the field. With rugged construction and compliance with IP68, MIL-STD-1344A, and other environmental durability standards, the NFP connector provides a long-lasting solution for commercial and industrial RF applications.

Technical Specifications

Return Loss (VSWR)	
DC to 1 GHz	• 30 dB (1.06)
1 GHz to 2 GHz	• 31 dB (1.06)
2 GHz to 3 GHz	• 32 dB (1.06)
3 GHz to 4 GHz	• 25 dB (1.12)
4 GHz to 5 GHz	• 20 dB (1.22)
5 GHz to 6 GHz	• 15 dB (1.43)

Technical Specifications (Continued)

Interface Type	N Female
Body Style	Straight
Impedance	50 Ohms
Frequency	0.3 MHz to 6 GHz
Dielectric Withstand Voltage	2 kV DC
3rd Order IMD	• -140 dBc minimum, -150 typical • 2 x 20 Watt carriers Test Method
Power	• Average 0.6 kW • Peak/maximum 10 kW
Insertion Loss	0.05 typical
Shielding Effectiveness	-130 dB
Contact Plating	Outer - Silver / Inner - Silver
Interface Durability	500 Cycles / Test Method IEC 16916
Minimum Connector Pull-Off Force	200 lbs.
Recommended Temperatures	• Operating -40° to 158°F (-40° to 70°C) • Storage -40° to 158°F (-40° to 70°C) • Installation 23° to 122°F (-5° to 50°C)
Immersion Test Method	IEC60529:2001 IP68
Corrosion Test Method	MIL-STD-1344A
Thermal Shock Test Method	MIL-STD-202F
Vibration Test Method	MIL-STD-202F

Ordering Information

Model	Description	Stock No.
NFP	NFP N-Female Connector for 1/2" Coaxial Cable (For use with COAX & AUTOPREP)	3996201