

Features

- Connects 1/2" air dielectric coaxial cable to N Male interface
- Threaded N Male interface ensures secure connection
- Compatible with 50 Ohm systems
- For Use with 1/2" AirCell® Plenum Cable
- PIM Rated
- No Extra O-Rings or Gels Needed
- Fast & Easy Installation
- Optimized for minimal signal loss and low VSWR
- Durable construction for long service life
- Supports Public Safety DAS systems



2011/65/EU

Description

The 50 Ohm cable connector is designed for use with 1/2" AirCell® Plenum Cable in public safety DAS installations. Its N Male interface provides a secure, low-loss connection with no need for additional O-rings or gels. PIM-rated for reliable signal transfer and minimal reflection. Return loss and VSWR remain stable across a broad frequency range (DC to 6 GHz), supporting consistent RF performance in mission-critical applications.

Return Loss and VSWR by Frequency Band

Return Loss (VSWR)	
DC to 1 GHz	36 dB (1.03)
1 GHz to 2.7 GHz	34 dB (1.04)
2.7 GHz to 3.7 GHz	28 dB (1.08)
3.7 GHz to 5 GHz	26 dB (1.10)
5 GHz to 6 GHz	19 dB (<1.25)
5 GHz to 6 GHz	15 dB (1.43)

Technical Specifications

Interface Type	N Male
Body Style	Straight
Impedance	50 Ohms
Frequency	0 MHz to 6 GHz
Dielectric Withstand Voltage	2 kV DC
PIM (2*43 dBm) 2x20 Watts	• ≤-155 dBc • Typical -160 to -165 dBc
Power	• Average 0.6 kW • Peak/maximum 10 kW
Insertion Loss	0.01 typical
Dielectric Withstanding Voltage	5000 M ohm
Contact Plating	• Outer - Silver • Inner - Silver
Contact Resistance	• Center 1.0 M ohm • Outer 0.25 M ohm
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)

Ordering Information

Model	Description	Stock No.
50 Ohm Connectors	For use with 1/2" 50 Ohm Plenum, Conduit, and In-Conduit Cables	3996130