



# 50 Ohm Connectors

## FEATURES

- For Use with 1/2" AirCell® Plenum Cable
- PIM Rated
- No Extra O-Rings or Gels needed
- Fast & Easy Installation



## Technical Specifications

Interface Type	N Male
Body Style	Straight
Impedance	50 Ohms
Frequency	0.3 MHz to 6 GHz
Dielectric Withstand Voltage	2 kV DC
3rd Order IMD	<ul style="list-style-type: none"> <li>• (-140 dBc minimum, -150 typical)</li> <li>• 2 x 20 Watt carriers Test Method</li> </ul>
Power	<ul style="list-style-type: none"> <li>• Average 0.6 kW</li> <li>• Peak/maximum 10 kW</li> </ul>
Insertion Loss	0.05 typical
Shielding Effectiveness	-130 dB
Contact Plating	<ul style="list-style-type: none"> <li>• Outer - Silver</li> <li>• Inner - Silver</li> </ul>
Interface Durability	500 cycles Test Method IEC 16916
Minimum Connector Pull-off Force	200 lbs
Recommended Temperatures	<ul style="list-style-type: none"> <li>• Operating -40° to 158°F (-40° to 70°C)</li> <li>• Storage -40° to 158°F (-40° to 70°C)</li> <li>• Installation 23° to 122°F (-5° to 50°C)</li> </ul>
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

TowerIQ PIM rated connectors for our AirCell® 1/2" Plenum cable have superior RF performance and allow for quick and easy installation. Use of the TowerIQ Cable Prep tool is recommended.

TL 9000 H-V - All Cables designed and manufactured under this quality management system

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)

## Ordering Information

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