



# 50 Ohm Plenum Cable 1/2"

## FEATURES

- AirCell® Non Pressurized Air Dielectric Design for Superior RF Performance and Ease of Installation
- Plenum Rated Jacketed CMP
- Conforms to NFPA-262, UL-444, Canadian CSA 222



2011/65/EU

## Technical Specifications

Physical Dimensions	<ul style="list-style-type: none"> <li>• Center Diameter, in (mm) 0.188 (4.78)</li> <li>• Diameter Over Outer Conductor, in (mm) 0.550 (13.97)</li> <li>• Maximum Diameter Over Jacket, in (mm) 0.63 (16.00)</li> </ul>
Cable Materials	<ul style="list-style-type: none"> <li>• Center Conductor Copper-Clad Aluminum</li> <li>• Outer Conductor Corrugated Aluminum</li> </ul>
Jacket Color	Off White
Maximum Frequency	10 GHz
Peak Power Rating	35 KW
DC Resistance	<ul style="list-style-type: none"> <li>• Center 0.46 (1.51) Ohms/1,000 ft (1,000m)</li> <li>• Outer 0.51 (1.67) Ohms/1,000 ft (1,000 m)</li> </ul>
DC Breakdown	2 kV
Capacitance	22 (72.12) mH/ft
Inductance	0.057 (0.187) mH/ft (m)
Jacket Spark	8 kV RMS
VSWR min	1.25 (19.0) (dB)
VSWR typical	1.13 (24.3) 700-960/1700-2200 MHz (dB)
Impedance	50 ± 2 Ohms
Velocity of Propagation	94%
Minimum Bend Radius	<ul style="list-style-type: none"> <li>• Single 2 (50.8) in (mm)</li> <li>• Multiple 5 (127) in (mm)</li> </ul>
Cable Weight	0.13 (0.20) lb/ft (kg/m)
Bending Moment	1 (1.4 ft lb (N m)
Tensile Strength	250 (114) lb (kg)
Flat Plate Crush	78(1.39) lb/in (kg/mm)
Number of Bends	15 minimum
Recommended Temperatures	<ul style="list-style-type: none"> <li>• Install Temp. '+5° to 194°F (-15° to 90°)</li> <li>• Storage Temp. '+5° to 194°F (-15° to 90°)</li> <li>• Operating Temp. '+5° to 194°F (-15° to 90°)</li> </ul>

The TowerIQ 50 Ohm 1/2" Plenum rated air dielectric cable is the superior choice for Public Safety in-building DAS systems. It conforms to NFPA, UL and CSA standards for Public Safety cabling to ensure our cable meets the highest level of quality and reliability in the industry. With low VSWR and DC Resistance the TowerIQ Plenum rated 1/2" cable is an ideal solution for your Public Safety DAS installation.

### Standard Conditions

For Attenuation: VSWR 1.0, Ambient Temperature 20°C (68°F)

For Average Power: VSWR 1.0, Ambient Temperature 40°C (104°F), Inner Conductor Temperature 100°C (212°F), No Solar Loading

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

## Ordering Information

Model	Description	Stock No.
50 Ohm Plenum Cable	1/2", Corrugated (6 GHz), Jacketed CMP, Conforms to NFPA-262, UL-444, Canadian CSA 22.2/FT6	3996054