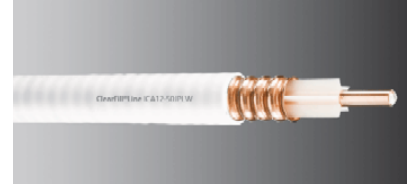


1/2" ClearFill®Line Plenum-Rated Air-Dielectric Coaxial Cable for In-Building Applications

Product Description

ClearFill®Line 1/2" low loss air dielectric cable, Plenum-rated, CMP



1/2" Plenum-Rated In-Building Cable

Features/Benefits

- **Supports Multiple RF Signals**
- **Complete Shielding**

The solid outer conductor of the ClearFill®Line coaxial cable creates a continuous RFI/EMI shield that minimizes system interference.

- **Outstanding Intermodulation Performance**

RFS coaxial cable's solid inner and outer conductors virtually eliminate intermods.

Intermodulation performance is also confirmed with state-of-the-art equipment at the RFS factory.

- **Wide Range of Applications**

Typical areas of application are: feedlines for plenum-space installations within occupied buildings or structures.

Technical Specifications

Cable Type	Air-Dielectric, Corrugated
Size	1/2"
Fire Performance	Flame Retardant, Plenum Rated
Return Loss (VSWR) Performance	24.3 (1.13:1) @ 806-960 MHz 24.3 (1.13:1) @ 1700-2155 MHz
Temperature & Power	High Power Rating
Inner Conductor Material	Copper-Clad Aluminum Wire
Diameter Inner Conductor, mm (in)	4.8 (0.19)
Dielectric Material	Extruded Polyethylene
Diameter Dielectric, mm (in)	11.8 (0.464)
Outer Conductor Material	Annularly Corrugated Copper
Diameter Outer Conductor, mm (in)	13.8 (0.54)
Jacket Material	Plenum Rated / color white
Diameter over Jacket Nominal, mm (in)	15.93 (0.627)
Cable Weight, kg/m (lb/ft)	0.37 (0.25)
Minimum Bending Radius, Single Bend, mm (in)	120 (4.8)
Minimum Bending Radius, Repeated Bends, mm (in)	125 (5)
Bending Moment, Nm (lb-ft)	4.1 (3.0)
Tensile Strength, N (lb)	1112 (250)
Recommended / Maximum Clamp Spacing, m (ft)	0.5 / 0.9 (1.8 / 3.0)
Impedance, Ohm	50 +/- 2
Maximum Frequency, GHz	6
Velocity, percent	91
Capacitance, pF/m (pF/ft)	76 (23.2)
Inductance, µH/m (µH/ft)	0.190 (0.058)
Peak Power Rating, kW	40
RF Peak Voltage, Volts	2.57
Jacket Spark, Volt RMS	8000
Inner Conductor dc Resistance, ohm/1000 m (ohm/1000 ft)	1.48 (0.45)
Outer Conductor dc Resistance, ohm/1000 m (Ohm/1000 ft)	1.90 (0.58)
Maximum Return Loss, dB (VSWR)	18 (1.228:1) in other specified bands
Installation Temperature, °C(°F)	-15 to +60 (5 to +140)
Storage Temperature, °C (°F)	-15 to +85 (5 to +185)
Operation Temperature, °C(°F)	-15 to +85 (5 to +185)
Flame Retardant Jacket Specifications	Meets/Exceeds Steiner Tunnel Test Method UL 910, NEC 820-53 (a) CATVP, NFPA-262.
Applications	Plenum In-Building



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Notes

Other Documentation

All information contained in the present datasheet is subject to confirmation at time of ordering