



Part Number:
APH012J50-2H

Features

- Plenum Rated Cable, Red Jacket
- 1/2", Corrugated, Aluminum Outer Conductor, Jacketed CMP, NFPA-262, UL-444, Canadian CSA 22.2/ FT6

Performance Standards

- NFPA-70, Article 810, Communication Systems, NFPA-72, NFPA-130
- NFPA-262 CMP, Canada CSA 22.2/FT6, UL-444, UL 2196 Circuit Integrity
- ETL UL-2196 System Design TCI/SC 120-01 for 27 10 00 Structured Cabling
- TL9000 H-V - All Cables designed and manufactured under this quality management system
- RoHS 2011/65/EU Compliant

Scope

Plenum Cable is a leading distributed antenna system (DAS) solution for large venues, public safety networks, enterprise applications, healthcare facilities, hospitality services, educational institutions, and mining operations. Our DAS cable helps create robust wireless infrastructures with superior performance due to its low-loss frequencies.

Electrical Characteristics

Maximum Frequency, GHz	1
Peak Power Rating, KW	40
VSWR min, (dB)	1.50 (14.0)
Impedance, Ohms	50 +/- 2
Velocity of Propagation	89%

Physical Dimensions

Center Diameter, in (mm)	0.188 (4.78)
Diameter Over Outer Conductor, in (mm)	0.550 (13.97)
Maximum Diameter Over Jacket, in (mm)	0.63 (16.00)
Center Conductor	Solid Copper
Outer Conductor	Corrugated Copper
Jacket Color	Red

Mechanical Characteristics

Minimum Bend Radius, in (mm)	8 (203.2)
Cable Clamp Spacing, ft (m)	2 (0.61)
Cable Weight, lb/ft (kg/m)	0.27 (0.40)
Tensile Strength, lb (kg)	275 (125)
Flat Plate Crush, lb/in (kg/mm)	110 (2.0)
Install Temp., °F (°C)	+5° to 194° (-15° to 90°C)
Storage Temp., °F (°C)	+5° to 194° (-15° to 90°C)
Operating Temp., °F (°C)	+5° to 194° (-15° to 90°C)

Attenuation and Average Power

Frequency MHz	Attenuation dB/100 ft dB/100 m		Average Power kW
150	1.12	3.67	4.82
450	2.32	7.61	1.68
600	2.88	9.45	1.46
700	3.20	10.50	1.46
800	3.56	11.68	1.18
900	3.86	12.66	1.18

Standard Conditions

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

Certified test results demonstrate the ability of the coaxial cable to maintain RF signal integrity over the duration of the fire test.

Design Number TCI/SC 120-02 Communications Cable.
Document Link (Inside Conduit)

