

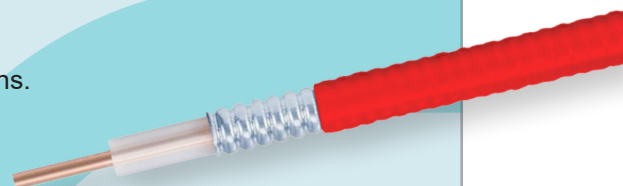
AV000012

Integrated Public Safety DAS RF Cable Assembly



Pre-terminated RF connectivity for reliable in-building wireless coverage.

- Pre-terminated design simplifies installation and field connections.
- Low-loss construction helps maintain RF signal strength.
- Wideband operation supports frequencies from 1–6000 MHz.
- Plenum-rated construction supports air-handling space installations.
- Flexible 1/2" design simplifies routing through confined spaces.
- Excellent VSWR helps minimize signal reflection.



Specifications

Product Type	0.50" Air Dielectric Coaxial Cable Assembly
Frequency Range	1–6000 MHz
Impedance	50 Ω $\pm$ 2 Ω
Peak Power	40 kW
Velocity	0.88
Capacitance	23 pF/ft (75.459 pF/m)
Inductance	0.058 μ H/ft (0.19 μ H/m)
DC Resistance, Inner Conductor	0.48 Ω /kft (1.575 Ω /km)
DC Resistance, Outer Conductor	0.48 Ω /kft (1.575 Ω /km)
DC Test Voltage	4,000 V
Jacket Spark Test Voltage	5,000 V RMS
Insulation Resistance	100,000 M Ω -km
Cable Weight	0.14 lb/ft (0.208 kg/m)
Fire Retardancy Test Method	NFPA 262 / CATVP / CMP
Nominal Size	0.50"
Diameter Over Jacket	0.62"
Inner Conductor OD	0.18"
Outer Conductor OD	0.553"

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Specifications Continued

Minimum Bend Radius, Single Bend	2.50"
Minimum Bend Radius, Multiple Bends	5.00"
Minimum Number of Bends	15
Tensile Strength	174.165 lbs (79 kg)
Bending Moment	5 ft-lb (6.779 N·m)
Flat Plate Crush Strength	80 lb/in (1.429 kg/mm)
Installation Temperature	23°F to 140°F (-5°C to 60°C)
Operating Temperature	-4°F to 185°F (-20°C to 85°C)
Storage Temperature	-4°F to 185°F (-20°C to 85°C)

VSWR & Return Loss

Frequency Band	VSWR	Return Loss
450–680 MHz	1.288:1	18 dB
680–960 MHz	1.135:1	24 dB
1695–2200 MHz	1.222:1	20 dB
2300–2700 MHz	1.288:1	18 dB
3100–3300 MHz	1.288:1	18 dB
3300–4200 MHz	1.377:1	16 dB
5150–5925 MHz	1.377:1	16 dB

Attenuation & Average Power

Frequency	Attenuation
450 MHz	1.565 dB/100 ft
700 MHz	2.007 dB/100 ft
800 MHz	2.166 dB/100 ft
824 MHz	2.203 dB/100 ft
894 MHz	2.308 dB/100 ft
960 MHz	2.405 dB/100 ft

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