

AV000011

Integrated Public Safety DAS RF Coaxial Cable



Low-loss RF connectivity for reliable in-building wireless coverage.

- Low attenuation helps maintain RF signal strength over long cable runs.
- Wideband performance supports frequencies from 1 MHz to 8.8 GHz.
- 50 Ω impedance ensures compatibility with standard RF equipment.
- Excellent VSWR minimizes reflected power for efficient signal transmission.
- Corrugated copper construction combines RF performance with installation flexibility.
- Durable polyethylene jacket supports demanding outdoor environments.



Specifications

Cable Type	0.5" Foam Dielectric Coaxial Cable
Nominal Size	0.5"
Frequency Range	1–8,800 MHz
Impedance	50 $\Omega \pm 1 \Omega$
Peak Power	40 kW
Velocity	0.88
Capacitance	75.8 pF/m (23.104 pF/ft)
Inductance	0.19 μ H/m (0.058 μ H/ft)
DC Resistance, Inner Conductor	1.48 Ω /km (0.451 Ω /kft)
DC Resistance, Outer Conductor	3.30 Ω /km (1.006 Ω /kft)
DC Test Voltage	4,000 V
Jacket Spark Test Voltage	8,000 V RMS
Insulation Resistance	100,000 M Ω -km
Cable Weight	0.148 lb/ft (0.22 kg/m)
Jacket Color	Black

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Specifications Continued

Inner Conductor	Copper-Clad Aluminum Wire
Dielectric	Foam Polyethylene
Outer Conductor	Corrugated Copper
Jacket	Polyethylene
Inner Conductor Diameter	0.19" (4.826 mm)
Diameter Over Dielectric	0.51" (12.954 mm)
Outer Conductor Diameter	0.55" (13.97 mm)
Diameter Over Jacket	0.625" (15.875 mm)
Minimum Bend Radius, Single Bend	2"
Minimum Bend Radius, Multiple Bends	5"
Minimum Number of Bends	15
Typical Number of Bends	50
Tensile Strength	249.122 lbs (113 kg)
Bending Moment	33.633 in-lb (3.8 N·m)
Flat-Plate Crush Strength	111.995 lb/in (2 kg/mm)
Installation Temperature	-40°F to 140°F (-40°C to 60°C)
Operating Temperature	-67°F to 185°F (-55°C to 85°C)
Storage Temperature	-94°F to 185°F (-70°C to 85°C)

VSWR & Return Loss

Frequency Band	VSWR	Return Loss
680–800 MHz	1.13:1	24.3 dB
800–960 MHz	1.13:1	24.3 dB
1,700–2,200 MHz	1.13:1	24.3 dB
2,300–2,700 MHz	1.13:1	24.3 dB

Attenuation & Average Power

Frequency	Attenuation	Average Power
450 MHz	1.447 dB/100 ft	1.61 kW
700 MHz	1.831 dB/100 ft	1.27 kW
800 MHz	1.968 dB/100 ft	1.18 kW
824 MHz	1.999 dB/100 ft	1.16 kW
894 MHz	2.089 dB/100 ft	1.11 kW
960 MHz	2.171 dB/100 ft	1.07 kW

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