- Information

Product.

Coaxial Feeder Cable 7/8 RF 50 OHM-Filled inner conductor

Prod No.

FC-feeder-cable-7/8-FIC

Application and Properties:

Andrew 7/8" virtual air dielectric 50Ω coaxial cable is an extremely high performance feeder cable. It is uniquely designed for the toughest installations requiring tight or repeated bends and is perfect for the main feed line to a large VHF/UHF DX or EME aerial system.

- Other Details

- Filled and bonded inner conductor
- No condensation build-up inside center conductor

- Low attenuation
- maximum flexibility
- proven reliability
- Performance maximized
- Fire-retardant version available
- Weatherproof seal ensuring peace of mind and long-term reliability
- New automated cable prep tool A5FX-EZPT now available.

- Technical Specification

Construction		
Inner Conductor	Material	Copper
	Diameter, mm	9.4488
Insulation	Material	Foame PE
	Diameter, mm	24.13
Outer Conductor	Material	Corrugated copper
	Diameter, mm	25.40
Jacket	Material	PE or fire retardant PE
	Diameter, mm	27.99
Mechanical properties		
Cable Weight	(lb/ft (0.46 kg/m 0.31	
Bending Moment	27.1N-m 20.0ft lb	
Flat Plate Crush Strength	75.0lb/in	
Minimum Bend Radius, Multiple Bends	254.00mm | 10.00in	
Minimum Bend Radius, Single Bend	127.00mm | 5.00in	
Number of Bends, minimum	15	
Number of Bends, typical	30	
Tensile Strength	159kg | 350lb	
Electrical properties		
Impedance,Ω		50±1
Capacitance, PF/m		73

Inductance,µH/m	0.184
Propagation velocity, %	90
dc Resistance, Inner Conductor	0.825 Ω/kft | 2.888 Ω/km
dc Resistance, Outer Conductor	ohms/kft | 1.313 ohms/km 0.400
dc Test Voltage	6000V
Insulation resistance, MΩ•km	100000
Peak power, kW	91
Jacket Spark Test Voltage (rms)	8000V
Operating Frequency Band	1 – 5000MHz
Environmental Specifications	
Installation Temperature	°40C to +60°C (°40F to +140°F)
Operating Temperature	55°C to +70°C - 67°F to +158°C -
Storage Temperature	70°C to +70°C - 94°F to +158°C -

Return Loss/VSWR

Frequency Band MHz	VSWR	Return Loss (dB)
680–800	1.13	24.30
800-960	1.13	24.30
1700-2200	1.13	24.30