

AAF-12-STR-JJ

1/2" Low Loss, Fire Retardant Coaxial Cable



Electrical Characteristics													
Impedance		50±1.5Ω											
Frequency		DC-3 GHz											
Cut-off Frequency		10.0 GHz											
Velocity		87%											
Capacitance		76 p F/m											
RF Peak Power Rating		40 kW											
Peak Voltage		1800 V											
Dielectric Strength		6.0 kV											
Insulation Resistance		> 1x10 ⁴ MΩ/km											
Inner Conductor DC Resistance		1.62 Ω/km											
Outer Conductor DC Resistance		3.12 Ω/km											
VSWR	700-1000 MHz	1.10											
	1700-2500 MHz	1.13											
	2500-2700 MHz	1.15											
Frequency (MHz)		200	450	800	900	1000	1500	1800	2000	2200	2500	3000	
Attenuation (20° C)	at 100 m	3.15 dB	4.81 dB	6.52 dB	6.91 dB	7.37 dB	9.25 dB	10.15 dB	10.79 dB	11.42 dB	12.29 dB	13.55 dB	
	at 100 ft	2.44 dB	1.59 dB	1.17 dB	1.10 dB	1.04 dB	0.84 dB	0.75 dB	0.71 dB	0.68 dB	0.62 dB	0.56 dB	

Maximum attenuation value shall be 105% of the nominal attenuation value.

Mechanical and Environmental Characteristics		
Bend Radius (min)	Single	50 mm
	Repeated	125 mm
Tensile Strength		1050 N
Cable Weight		215 kg/km
Temperature	Storage	-30° C to +80° C
	Installation	-25° C to +60° C
	Operating	-30° C to +80° C
Construction	Material	Diameter
Inner Conductor	CCA	4.80 ± 0.05 mm
Insulation	Foamed Polyethylene (PE)	12.3 ± 0.15 mm
Outer Conductor	Annular Corrugated Copper Tube	13.8 ± 0.15 mm
Jacket	Fire Retardant PE (wall thickness > 0.9 mm)	15.7 ± 0.2 mm

Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.