AAF-12-ST-JJ

1/2" Low Loss Coaxial Cable

Electrical Characteristics													
Impedance		50±1.5Ω											
Frequency		DC-3.8 GHz											
Cut-off Frequency		10.0 GHz											
Velocity		87%											
Capacitance		76 p F/m											
RF Peak Power Rating		40 kV											
Peak Voltage		1800 V											
Dielectric Strength		6.0 kV											
Insulation Resistance		> 1x10⁴ 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	3800
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	15.80 dB
Average Power		2.44 kV	1.59 kV	1.17 kV	1.10 kV	1.04 kV	0.84 kV	0.75 kV	0.71 kV	0.68 kV	0.62 kV	0.56 kV	0.45 kV

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	-70° C to +85° C
	Installation	-40° C to +60° C
	Operating	-55° C to +85° 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	LLDPE (wall thickness > 0.9 mm)	15.7 ± 0.2 mm