

AAF-78-ST-JJ

7/8" Low Loss Coaxial Cable



Electrical Characteristics													
Impedance		50±1.5Ω											
Frequency		DC-3.8 GHz											
Cut-off Frequency		5.2 GHz											
Velocity		88%											
Capacitance		76 p F/m											
RF Peak Power Rating		90 kW											
Peak Voltage		3200 V											
Dielectric Strength		10.0 kV											
Insulation Resistance		> 1x10 ⁴ MΩ/km											
Inner Conductor DC Resistance		2.21 Ω/km											
Outer Conductor DC Resistance		1.55 Ω/km											
VSWR	800-1000 MHz	1.15											
	1700-2500 MHz	1.15											
	2500-3000 MHz	1.20											
Frequency (MHz)		450	800	900	1000	1500	1800	2000	2200	2500	3000	3800	
Attenuation (20° C)	at 100 m	2.70 dB	3.69 dB	3.97 dB	4.20 dB	5.27 dB	5.86 dB	6.20 dB	6.52 dB	7.05 dB	7.85 dB	9.21 dB	
Average Power		3.6 kW	2.67 kW	2.5 kW	2.36 kW	1.9 kW	1.84 kW	1.72 kW	1.54 kW	1.43 kW	1.29 kW	1.12 kW	

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

Mechanical and Environmental Characteristics		
Bend Radius (min)	Single	120 mm
	Repeated	250 mm
Tensile Strength		1400 N
Cable Weight		450 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	Copper Tube	9.0 ± 0.10 mm
Insulation	Foamed Polyethylene (PE)	22.7 ± 0.20 mm
Outer Conductor	Annular Corrugated Copper Tube	24.9 ± 0.25 mm
Jacket	LLDPE (wall thickness > 1.1 mm)	27.5 ± 0.25 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.