

## AAF-11-ST-JJ

### 1-1/4" Low Loss Coaxial Cable



Electrical Characteristics													
Impedance		50±1.5Ω											
Frequency		DC-3.6 GHz											
Cut-off Frequency		3.7 GHz											
Velocity		87%											
Capacitance		77 p F/m											
RF Peak Power Rating		205 kW											
Peak Voltage		4300 V											
Dielectric Strength		10.0 kV											
Insulation Resistance		> 1x10 <sup>4</sup> MΩ/km											
Inner Conductor DC Resistance		1.18 Ω/km											
Outer Conductor DC Resistance		0.87 Ω/km											
VSWR	800-1000 MHz	1.18											
	1700-2500 MHz	1.18											
	2500-3000 MHz	1.20											
Frequency (MHz)		450	800	900	1000	1500	1800	2000	2200	2500	3000	3600	
Attenuation (20° C)	at 100 m	1.94 dB	2.66 dB	2.87 dB	3.04 dB	3.87 dB	4.29 dB	4.58 dB	4.91 dB	5.24 dB	5.85 dB	7.22 dB	
Average Power		5.22 kW	3.78 kW	3.69 kW	3.32 kW	2.62 kW	2.35 kW	2.21 kW	2.21 kW	1.92 kW	1.72 kW	1.35 kW	

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

Mechanical and Environmental Characteristics		
Bend Radius (min)	Single	200 mm
	Repeated	380 mm
Tensile Strength		2500 N
Cable Weight		760 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	13.1 ± 0.10 mm
Insulation	Foamed Polyethylene (PE)	32.5 ± 0.25 mm
Outer Conductor	Annular Corrugated Copper Tube	35.8 ± 0.3 mm
Jacket	LLDPE (wall thickness > 1.2 mm)	38.8 ± 0.3 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.