

AAF-12-ST

1/2" Standard Cable



Electrical Characteri	stics													
Impedance			50Ω											
Max Operating Frequency			8.8 GHz											
Cut-off Frequency			10 GHz											
Velocity			88%											
Capacitance (1 kHz)			76 nF/km (23.2 nF/1000ft)											
Passive Intermodulation			≤ -160 dBc											
RF Peak Power Rating			40 kW											
Test Voltage - Wire/Screen rms 50Hz 1 min			2000 V											
HF - Operating Voltage (peak)			≤ 1590 V											
	Inner Conductor			≤ 1.6 Ω/km (0.48 Ω/1000ft)										
Resistance	Outer Conductor		≤ 2.4 Ω/km (0.76 Ω/1000ft)											
	Insulation		≥ 10 GΩ·km (32.8 GΩ·1000ft)											
Return Loss / VSWR	700-1000 MHz		23 dB / 1.15											
(typical)	1700-2700 MHz		23 dB / 1.15											
Screening attenuation			≥ 120 dB											
Inductance			0.190 μH/m (0.058 μH/ft)											
Frequency (MHz)		100	450	800	900	1000	1800	1900	2200	2500	2700	3000		
Attenuation (typical) at 100 m at 100 ft		2.1 dB	4.6 dB	6.3 dB	6.7 dB	7.2 dB	9.9 dB	10.3 dB	11.2 dB	12 dB	12.6 dB	13.2 dB		
		at 100 ft	0.6 dB	1.4 dB	1.9 dB	2.0 dB	2.2 dB	3.0 dB	3.1 dB	3.4 dB	3.7 dB	3.8 dB	4.0 dB	
Mean Power at 40° C		3.92 kW	1.76 kW	1.28 kW	1.19 kW	1.12 kW	0.81 kW	0.78 kW	0.72 kW	0.66 kW	0.63 kW	0.59 kW		
Mechanical and Envi	ironmen	tal Characteristics												
Bend Radius (min)	Single		4.5 x Ø											
	Repeated		7.5 x Ø											
Number of Bends	minimum		15											
Number of Bends	typical		50											
Tensile Strength			≤ 1150 N											
Cable Weight (approx.)			230 kg/km (154.2 lb/1000 ft)											
Operating Temperature			-55° C to +85° C (-67° F to +85° F)											
Installation Temperature			-40° C to +60° C (-40° F to +140° F)											
Standards	Screen Material		DIN EN 13602 CU-ETP-R											
	Jacket Material		DIN EN 50290-2-24 (VDE 0819), table 1/2-L/MD (HD 624.4)											
	Corrosivity of fire gases		IEC 60754-2											
Construction			Material							Diameter				
Inner Conductor			Copper-Clad Aluminum Wire							4.8 mm				
Dielectric				Foamed Polyethylene (PE) with Skin							12.1 mm			
Outer Conductor		C	Copper-Tape, Longitudinal Welded Annular Corrugation							13.7 mm				
Jacket		Black Polyethylene, PE (wall thickness approx. 1 mm)							15.8 mm ± 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.