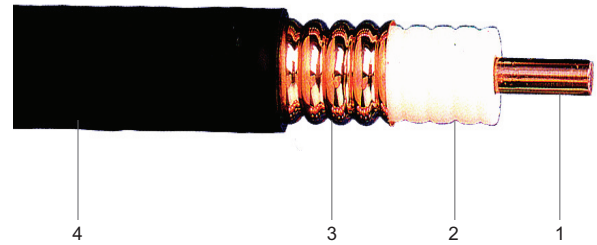


HCAA-50-12 | HCAA-50-12Z

1/2" Low Loss Physical Foamed Insulation Coaxial Cable

Ordering Information			
Standard Cable	HCAA-50-12		
Fire Retardant Cable	HCAA-50-12Z		
Construction			
Inner Conductor	Material	Copper clad aluminum wire	
	Diameter	4.80±0.05 mm	
Insulation	Material	Physically foamed PE	
	Diameter	12.20±0.30 mm	
Outer Conductor	Material	Ring corrugated copper	
	Diameter	13.80±0.20 mm	
Jacket	Material	PE or fire retardant PE	
	Diameter	15.80±0.20 mm	
Mechanical Properties			
Bending Radius	Single	70 mm	
	Repeated	125 mm	
	Moving	350 mm	
Pulling Strength	1130 N		
Crush Resistance	2.0 kg/mm		
Recommended Temperature	PE Jacket	Storage	-70~+85°C
		Installation	-40~+60°C
		Operation	-55~+85°C
	Fire Retardant PE Jacket	Storage	-30~+80°C
		Installation	-25~+60°C
		Operation	-30~+80°C
Electrical Properties			
Impedance	50±1Ω		
Capacitance	75.8 pF/m		
Propagation Velocity	88%		
DC Breakdown Voltage	4.0 kV		
Insulation Resistance	>5x10 ³ MΩ .km		
Peak Power	40 kW		
Screening Attenuation	>>120 dB		
Cut-off Frequency	8.8 GHz		



1. Inner Conductor
2. Insulation
3. Outer Conductor
4. Jacket

Nominal Attenuation and Power Rating		
Frequency MHz	Nominal Attenuation @20°C, dB/100m	Power Rating @20°C, kW
10	0.672	11.30
100	2.17	3.49
200	3.10	2.44
450	4.75	1.59
800	6.46	1.17
900	6.87	1.10
1000	7.28	1.04
1500	9.09	0.833
1800	10.10	0.753
2000	10.70	0.710
2500	12.10	0.627
3000	13.40	0.565

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

VSWR	
800~1000 MHz	≤1.15
1700~2200 MHz	≤1.15
5~3000 MHz	≤1.25