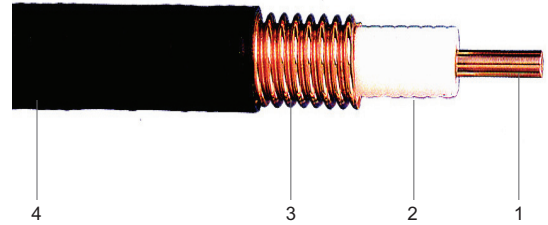


1/2" Super-flex Feeder Cable

HCAA-50-12S | HCAA-50-12SZ

1/2" Super-Flexible Physical Foamed Insulation Coaxial Cable

Ordering Information			
Standard Cable	HCAA-50-12S		
Fire Retardant Cable	HCAA-50-12SZ		
Construction			
Inner Conductor	Material	Copper clad aluminum wire	
	Diameter	3.60±0.04 mm	
Insulation	Material	Physically foamed PE	
	Diameter	8.80±0.20 mm	
Outer Conductor	Material	Helically corrugated copper	
	Diameter	12.20±0.20 mm	
Jacket	Material	PE or fire retardant PE	
	Diameter	13.40±0.20 mm	
Mechanical Properties			
Bending Radius	Single	25 mm	
	Repeated	30 mm	
	Moving	200 mm	
Pulling Strength	800 N		
Crush Resistance	1.9 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	82 pF/m		
Propagation Velocity	81%		
DC Breakdown Voltage	2.5 kV		
Insulation Resistance	>5x10 ³ MΩ .km		
Peak Power	15.6 kW		
Screening Attenuation	>>120 dB		
Cut-off Frequency	10.2 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	1.04	10.1
100	3.41	3.08
200	4.91	2.14
450	7.59	1.38
800	10.4	1.01
900	11.2	0.943
1000	11.8	0.889
1500	14.9	0.705
1800	16.6	0.634
2000	17.6	0.597
2500	19.7	0.535
3000	22.4	0.469

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