

## 1/2" Flexible RF Coaxial Cable



Part No.	HCAAY(Z)-50-12	
<b>Material and dimensions</b>		
Inner conductor	Copper Clad Aluminum wire	Ø4.80±0.05 mm
Insulation	Foam PE	Ø 12.20±0.20 mm
Outer conductor	Annular corrugated copper tube	Ø 13.80±0.15mm
Jacket	PE Black or FNRC	Ø15.70 ±0.20mm
<b>Electrical Specifications</b>		
Impedance	50 ± 1 Ω	
Relative Velocity of Propagation	87%	
Capacitance	76 pF/m	
Maximum Operating Frequency	8.8GHz	
Peak Power Rating	40.0kW	
Insulation Resistance	> 10000 M Ω .km	
DC Breakdown Voltage	6000V	
Jacket Spark Test Voltage	8000 Vrms	
Inner Conductor DC-resistance	≤1.62 Ω /km	
Outer Conductor DC-resistance	≤3.55 Ω /km	
Shielding Attenuation	≥120dB	
<b>Environmental Specifications</b>		
	<b>PE</b>	<b>FRNC</b>
Installation Temperature	-40°C to +60°C	-20°C to +60°C
Operating Temperature	-55°C to +85°C	-30°C to +80°C
Storage Temperature	-70°C to +85°C	-30°C to +80°C
<b>Mechanical Specifications</b>		
Cable weight PE	≈180 kg/km	
Cable weight FRNC	≈195 kg/km	
Tensile strength	1050 N	



Min. bending radius (single)	50 mm	
Min. bending radius (repeated)	125 mm	
Bending moment	5 Nm	
Flat plate crush strength	12 N/mm	
<b>Standard Conditions</b>		
Attenuation, VSWR 1.0 Ambient Temperature	20°C	
Average Power, VSWR 1.0 Ambient Temperature	40°C	
Average Power, Inner Conductor Temperature	100°C	
PIM	≤-160dBc	
VSWR	800MHz -1000MHz≤1.10 1700MHz -2200MHz≤1.13 2200MHz - 4000MHz≤1.15	
<b>Attenuation</b>		
Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
100	2.17	3.52
200	3.12	2.25
300	3.85	1.98
400	4.56	1.70
450	4.75	1.59
800	6.46	1.17
900	6.86	1.10
1000	7.28	1.04
1800	10.10	0.75
2000	10.72	0.71
2200	11.26	0.67
2500	12.13	0.62
2700	12.70	0.60
3000	13.41	0.57
3500	14.70	0.53
3800	15.36	0.51
4000	15.85	0.50

\* Maximum attenuation value shall be 105% of the nominal attenuation value

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<b>Regulatory compliance/Certifications.</b>	
RoHs 2011/65/EU	Compliance
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2006	Below Maximum Concentration Value (MCV)
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
Fire	IEC 60754-1、-2; IEC 60332-1、-2; IEC 61034-1、-2; IEC 60332-3-24.