

7/8” Flexible RF Coaxial Cable



Part No.	HCTAY(Z)-50-23	
Material and dimensions		
Inner conductor	Copper Clad Aluminum wire	Ø9.45±0.10 mm
Insulation	Foam PE	Ø 22.60±0.30 mm
Outer conductor	Annular corrugated copper tube	Ø 25.40±0.20mm
Jacket	PE Black or FNRC	Ø27.50 ±0.25mm
Electrical Specifications		
Impedance	50 ± 1 Ω	
Relative Velocity of Propagation	89%	
Capacitance	76 pF/m	
Maximum Operating Frequency	5.2GHz	
Peak Power Rating	90.0kW	
Insulation Resistance	> 10000 M Ω .km	
DC Breakdown Voltage	10000V	
Jacket Spark Test Voltage	8000 Vrms	
Inner Conductor DC-resistance	≤2.50 Ω /km	
Outer Conductor DC-resistance	≤2.00 Ω /km	
Shielding Attenuation	≥120dB	
Environmental Specifications		
	PE	FRNC
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
Mechanical Specifications		
Cable weight PE	≈340 kg/km	
Cable weight FRNC	≈380 kg/km	
Tensile strength	1450 N	
Min. bending radius (single)	130 mm	

Min. bending radius (repeated)	250 mm	
Bending moment	16 Nm	
Flat plate crush strength	10 N/mm	
Standard Conditions		
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≤1.13 1700MHz -2700MHz≤1.15 3300MHz - 4000MHz≤1.20	
Attenuation		
Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
100	1.11	9.30
200	1.60	6.40
300	1.99	4.82
400	2.31	4.16
450	2.49	3.81
800	3.45	2.75
900	3.62	2.62
1000	3.85	2.56
1800	5.36	1.79
2000	5.62	1.70
2200	6.01	1.60
2500	6.48	1.48
2700	6.79	1.23
3000	7.20	1.17
3500	7.78	1.05
3800	8.15	0.97
4000	8.78	0.92

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



Regulatory compliance/Certifications.	
RoHs 2011/65/EU	Compliance
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014	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.