

7/8” Flexible RF Coaxial Cable



- The high-performance of attenuation allows coaxial cable to be used in different RF systems, such as 3G, 4G mobile communication.
- Wide range of applications, such as indoor distribution, broadcast, various base stations, wireless cellular, and others.
- Lower VSWR, perfect shielding effectiveness, and extraordinary inter-modulation performance lead to fewer energy loss and outer interference.

Specifications :

Part No.	HT-HCTAY(Z)-50-22	
Material and dimensions		
Inner conductor	Copper tube	Ø 9.00±0.10mm
Insulation	Foam PE	Ø 22.50±0.30mm
Outer conductor	Annular corrugated copper tube	Ø 24.90±0.30mm
Jacket	PE or LSZH	Ø 27.50±0.30mm
Electrical Specifications		
Impedance	50 ± 2Ω	
Relative Velocity of Propagation	88%	
Capacitance	76 pF/m	
Maximum Operating Frequency	5.2 GHz	
Peak Power Rating	90 kW	
Insulation Resistance	≥10000 MΩ . km	
DC Breakdown Voltage	1000V	
Jacket Spark Test Voltage	8000 Vrms	
Inner Conductor DC-resistance	≤ 2.65Ω/km	
Outer Conductor DC-resistance	≤2.30Ω/km	
Shielding Attenuation	≥ 120 dB	
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		

Tensile strength	1450 N	
Min. bending radius (single)	125 mm	
Min. bending radius (repeated)	250mm	
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	Intermodulation(3rd order,2*20W) ;≤-160dBc	
VSWR	690MHz -960MHz≤1.15	
	1700MHz -2700MHz≤1.15	
	3300MHz - 4000MHz≤1.20	
Attenuation		
Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
200	1.69	6.27
450	2.65	3.73
800	3.64	2.49
900	3.86	2.34
1800	5.76	1.73
2000	6.12	1.63
2200	6.46	1.40
2500	6.97	1.33
2700	7.28	1.25
3000	7.76	1.16
3500	8.35	1.05
4000	9.09	0.99
* Maximum attenuation value shall be 105% of the nominal attenuation value		
Regulatory Compliance/Certification		
RoHS 2011/65/EU	Compliant	
China RoHS SJ/T 11364-2006	Below Maximum Concentration Value (MCV)	
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system	