

Technical Specification

7/8" Flexible RF feeder Cable



jacket outer conductor insulation inner conductor

Type		Type No.
Standard cable		HCTAY-50-22
Fire-retardant cable		HCTAYZ-50-22
Construction		
Inner conductor	Material	Copper tube
	Diameter (mm)	9.0±0.10
Insulation	Material	Foamed PE
	Diameter (mm)	22.7±0.20
Outer conductor	Material	Annular corrugated copper tube
	Diameter (mm)	24.9±0.25
Jacket	Material	LLDPE or fire-retardant PE
	Min.thickness (mm)	>1.1
	Diameter (mm)	27.5±0.25
Mechanical Characteristics		
Bending radius (mm)	Single bend	120
	Repeated bend	250
Tensile strength (N)		1400
Cable weight (kg/km)		400
Recommended temperature (°C)	Storage	-70~+85
	Installation	-40~+60
	Operating	-55~+85

● Products meet the RoHS requirement, and according to the requirements of RoHS, you can see the RoHS mark on the outside package

Electrical Characteristics		
Inner conductor DC resistance (Ω/km)	2.35	
Outer conductor DC resistance (Ω/km)	1.86	
Characteristic impedance (Ω)	50±2	
Capacitance (p F/m)	76	
Velocity (%)	88	
Dielectric strength (KV)	10.0	
Insulation resistance (MΩ/km)	$>1 \times 10^4$	
Peak power rating (KV)	90	
Peak voltage (V)	3200	
Cut-off frequency (GHz)	5.2	
Attenuation and Average power (Maximum attenuation value shall be 108% of the nominal attenuation value)		
Frequency (MHz)	Attenuation (@20°C, dB/100m)	Average power (kv)
200	1.72	5.26
450	2.65	3.41
800	3.63	2.48
900	3.88	2.34
1000	4.12	2.19
1500	5.18	1.74
1800	5.75	1.57
2000	6.11	1.48
2200	6.46	1.40
2500	6.95	1.30
3000	7.76	1.16
VSWR		
800MHz~1000MHz	1.15	
1700MHz~2500MHz	1.20	
2500MHz~3000MHz	1.20	

Note:

For fire-retardant jacket cable, recommended temperature:

Storage: -30°C~+80°C

Installation: -25°C~+60°C

Operating temperature: -30°C~+80°C