

Technical Specification

7/8 " Flexible RF Coaxial 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	Smooth Copper Tube
	Diameter (mm)	9.0±0.10
	Thickness(mm)	0.28±0.001
Dielectric	Material	Foamed PE
	Diameter (mm)	22.70±0.20
Outer Conductor	Material	Corrugated Copper tube
	Diameter(mm)	24.90±0.25
	Thickness(mm)	0.13±0.001
Jacket	Material	LDPE or FR- LSZH
	Thickness(mm)	> 1.1
	Diameter(mm)	27.50±0.25
Mechanical Characteristics		
Bending radius(mm)	Single bend	160
	Repeated bend	280
Tensile strength(N)		1100
Recommended temperature(°C)	Storage	-60~+85
	Installation	-40~+60
	Operating	-50~+85

● Products meet the RoHS requirement, and according to the requirements of RoHS.

Electrical Characteristics		
Inner conductor DC resistance(Ω /km)		≤ 2.39
Outer conductor DC resistance(Ω /km)		≤ 2.09
Characteristic impedance(Ω)		50±2.0
Capacitance(p F/m)		78
Velocity(%)		86
Dielectric strength(KV)		10.0
Insulation resistance (M Ω /km)		$> 1 \times 10^4$
Peak voltage(V)		3200
Cut-off Frequency(GHZ)		5.2
Attenuation and Average power(Maximum attenuation value shall be 105% of the nominal attenuation value)		
Frequency (MHz)	Attenuation (@20°C) dB/100m	Average power (kw)
200	1.78	5.26
450	2.78	3.41
800	3.83	2.48
900	4.07	2.34
1000	4.35	2.19
1500	5.54	1.74
1800	6.06	1.57
2000	6.44	1.48
2200	6.83	1.40
2500	7.34	1.30
2700	7.68	1.23
3000	8.19	1.16
VSWR		
800MHz~1000MHz		≤ 1.15
1700MHz~2500MHz		≤ 1.18
2500MHz~3000MHz		≤ 1.20

Note:

For fire-retardant cable, recommended temperature:

Storage: -30°C~+80°C

Installation: -25°C~+60°C

Operating temperature: -30°C~+80°C