

Technical Specification

7/8" Flexible RF Coaxial Cable



Type		Type No.
Standard cable		HCTAY-50-22
Fire-retardant cable		HCTAYZ-50-22
Construction		
1.Inner conductor	Material	Copper tube
	Diameter (mm)	9.0±0.10
2.Insulation	Material	Foamed PE
	Diameter (mm)	22.4±0.30
3.Outer conductor	Material	Annular corrugated copper tube
	Diameter (mm)	24.90±0.25
4.Jacket	Material	LDPE or FRNC
	Diameter (mm)	27.50±0.25
Mechanical Characteristics		
Bending radius (mm)	Single bend	120
	Repeated bend	250
Tensile strength (N)		1400
Cable weight (kg/km)	PE	340
	FRNC	380
Recommended temperature (℃)	Storage	-70~+85
	Installation	-40~+60
	Operating	-55~+85

Electrical Characteristics		
Inner conductor DC resistance (Ω /km)		2.65
Outer conductor DC resistance (Ω /km)		2.10
Characteristic impedance (Ω)		50
Capacitance (p F/m)		76
Velocity (%)		86
Dielectric strength (KV)		10.0
Insulation resistance (MΩ /km)		>1×104
Peak power rating (KW)		90
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℃, d B/100m)	Average power (kw)
200	1.69	6.27
450	2.65	3.73
800	3.64	2.49
900	3.86	2.34
1000	4.13	2.19
1800	5.76	1.73
2000	6.12	1.64
2200	6.46	1.40
2500	6.97	1.34
3000	7.76	1.16
VSWR		
800MHz~1000MHz		1.13
1700MHz~2500MHz		1.15
2500MHz~3000MHz		1.20

Note:

For fire-retardant jackter cable, recommended temperature:

Storage: -30℃~+80℃

Installation: -25℃~+60℃

Operating temperature: -30℃~+80℃