

Standard Jacket: HCTAY-50-22 (7/8")

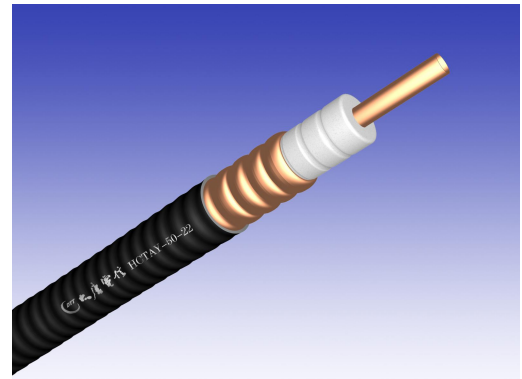
Fire retardant Jacket: HCTAYZ-50-22 (7/8"Retardant)

Characteristics

Low Attenuation, low VSWR,
High expansion, high power rating,
Excellent environmental performance
and Mechanical Performance.

Application

Widely used in wireless
communication base station.



7/8" Coaxial Cable

Construction

Inner conductor	
Smooth Copper-tube	
Diameter (mm)	9.00±0.10
Insulation	
3 layers of Insulation	
Diameter (mm)	22.40±0.40
Outer conductor	
Corrugated Copper-tube	
Diameter over copper	
Outer conductor (mm)	24.90±0.30
Jacket	
Thickness (mm)	1.20±0.20
Diameter (mm)	27.50±0.30

Engineering data

Minimum Bending Radius (mm)	
Single Bending	120
Multiple Bending	250
Minimum Number of Bends	15
Temperature range (°C)	
Standard jacket	-40~+70
Fire Retardant Jacket	-25~+70

Electrical Performance

Impedance (Ω)	50 ± 1	
Capacitance (pF/m)	75	
Velocity (%)	88	
Dc Breakdown, volts (V)	≥6000	
Shielding Effectiveness (dB)	>>120	
Cut-off Frequency (GHz)	5.4	
Attenuation (dB/100m) and average power (kW)		
Frequency	Attenuation	Average Power
150 MHz	1.47	7.20
450 MHz	2.64	3.88
800 MHz	3.62	2.83
900 MHz	3.87	2.65
1800 MHz	5.73	1.79
2000 MHz	6.09	1.68
2500 MHz	6.94	1.50
3000 MHz	7.74	1.35
VSWR		
820MHz~960MHz	1.10	
1700MHz~2200MHz	1.13	
2200MHz~2700MHz	1.15	

Standard Conditions:

For attenuation: VSWR 1.0, cable temperature 20°C

For average power: VSWR 1.0, ambient temperature 40°C

Inner conductor temperature 100°C.No solar loading.

Maximum VSWR and attenuation value shall be 105% of the nominal value.