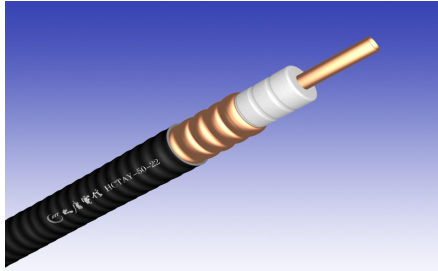


## 50 ohm Corrugated Copper-tube Outer Conductor Coaxial Cables

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

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



7/8" Flexible Coaxial Cable

### Characteristics

Low Attenuation, low VSWR, High expansion, high power rating, Excellent environmental performance and Mechanical Performance. 7/8" fire retardant cable fulfills the severe requirements of CPR Class B2ca-s1-d1-a1  
 Cable Normal: ECA

### 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)	27.30±0.30

### Electrical Performance

Impedance (Ω)	50±1		
Capacitance (pF/m)	75		
Inductance (uH/m)	0.19		
Velocity (%)	89		
Dc Breakdown, volts (V)	≥6000		
Peak Power(kW)	90		
Shielding Effectiveness (dB)	>>120		
Insulation Resistance(MΩ.km)	10000		
Cut-off Frequency (GHz)	5.0		
Frequency (MHz)	Return Loss(dB)	Attenuation (dB/100m)	Average Power (kW)
150 MHz	21.5	1.47	6.12
450 MHz	21.5	2.64	3.41
800 MHz	23	3.62	2.48
900 MHz	23	3.86	2.34
1800 MHz	23	5.73	1.57
2000 MHz	23	6.09	1.48
2500 MHz	23	6.94	1.24
3000 MHz	21	7.74	1.16
3400 MHz	21	8.33	1.08
3600 MHz	21	8.62	1.06
3700 MHz	21	8.76	1.04
3800 MHz	21	8.90	1.02
4000 MHz	19	9.18	0.98
4800 MHz	19	10.26	0.86
4900 MHz	19	10.39	0.86
5000 MHz	19	10.52	0.85

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<b>Engineering data</b>	
<b>Minimum Bending Radius (mm)</b>	
Single Bending	120
Multiple Bending	250
Number of bends	15
<b>Temperature range (°C)</b>	
Standard jacket	-40~+70
Fire Retardant Jacket	-25~+70

**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 return loss and attenuation value shall be 105% of the nominal value.