

Standard Jacket: HCTAY-50-32 (1-1/4")

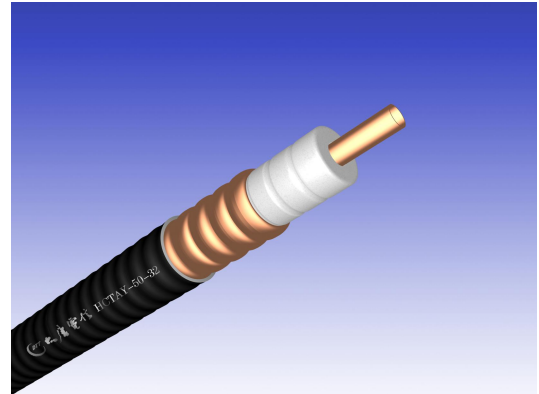
Fire retardant Jacket: HCTAYZ-50-32 (1-1/4"Retardant)

**Characteristics**

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

**Application**

Widely used in wireless communication base station.



1-1/4" Coaxial Cable

**Construction**

|                        |            |
|------------------------|------------|
| Inner conductor        |            |
| Smooth Copper-tube     |            |
| Diameter (mm)          | 13.10±0.10 |
| Insulation             |            |
| 3 layers of Insulation |            |
| Diameter (mm)          | 32.50±0.50 |
| Outer conductor        |            |
| Corrugated Copper-tube |            |
| Diameter over copper   |            |
| Outer conductor (mm)   | 35.80±0.30 |
| Jacket                 |            |
| Thickness (mm)         | 1.50±0.20  |
| Diameter (mm)          | 38.50±0.40 |

**Engineering data**

|                             |         |
|-----------------------------|---------|
| Minimum Bending Radius (mm) |         |
| Single Bending              | 200     |
| Multiple Bending            | 380     |
| Temperature range (°C)      |         |
| 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 VSWR and attenuation value shall be 105% of the nominal value.

**Electrical Performance**

|  |             |               |
|--|-------------|---------------|
| Impedance (Ω)                                | 50±1        |               |
| Capacitance (pF/m)                           | 75          |               |
| Velocity (%)                                 | 89          |               |
| Dc Breakdown, volts (V)                      | ≥9000       |               |
| Shielding Effectiveness (dB)                 | >>120       |               |
| Cut-off Frequency (GHz)                      | 4.0         |               |
| Attenuation (dB/100m) and average power (kW) |             |               |
| Frequency                                    | Attenuation | Average Power |
| 150 MHz                                      | 1.05        | 9.52          |
| 450 MHz                                      | 1.91        | 5.20          |
| 800 MHz                                      | 2.64        | 3.59          |
| 900 MHz                                      | 2.83        | 3.52          |
| 1800 MHz                                     | 4.24        | 2.33          |
| 2000 MHz                                     | 4.52        | 2.20          |
| 2500 MHz                                     | 5.18        | 1.92          |
| 3000 MHz                                     | 5.79        | 1.70          |
| 3500 MHz                                     | 6.49        | 1.56          |
| 3600 MHz                                     | 6.61        | 1.51          |
| <b>VSWR</b>                                  |             |               |
| 820MHz~960MHz                                | 1.10        |               |
| 1700MHz~2200MHz                              | 1.13        |               |
| 2200MHz~2700MHz                              | 1.15        |               |