

# Ultra low loss, stable amplitude, stable phase flexible coaxial cable P/N:CA220P

## Features:

- Maximum operating frequency: 67GHz
- Low loss
- Stable amplitude and phase

## Typical Applications:

- Tactical radar
- Information Channel
- electronic countermeasure
- High power cable



## Structural Materials and Dimensions:

| Structure          | Material                   | Diameter(mm) |
|--------------------|----------------------------|--------------|
| Center conductor   | Silver plated copper       | 0.51         |
| Dielectric         | Low density PTFE           | 1.40         |
| Outer conductor    | Silver plated copper strip | 1.58         |
| Middle layer       | Low density PTFE           | 1.74         |
| External shielding | Silver plated copper wire  | 2.06         |
| Jacket             | FEP(gray)                  | 2.36         |

## Specifications:

|                                                    |                                                  |
|----------------------------------------------------|--------------------------------------------------|
| Operating frequency range (GHz)                    | DC-67GHz                                         |
| Impedance ( $\Omega$ )                             | 50 $\Omega$                                      |
| transmission speed (%)                             | 81%                                              |
| Dielectric strength (V,DC)                         | 400 V,DC                                         |
| Static bending radius (mm)                         | 12mm                                             |
| Dynamic bending radius (mm)                        | 24mm                                             |
| Weight (g/m)                                       | 16g/m                                            |
| Operating temperature range ( $^{\circ}\text{C}$ ) | -55 $^{\circ}\text{C}$ to+125 $^{\circ}\text{C}$ |
| RoHS                                               | Compliant                                        |

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Attenuation (dB/100m) typical value @ 25 °C sea level and Transmission power value

| Frequency(MHz) | Attenuation(dB/100m) | Average power(kw) |
|----------------|----------------------|-------------------|
| 1000           | 63.7                 | 0.055             |
| 2000           | 90.8                 | 0.039             |
| 3000           | 111.9                | 0.032             |
| 6000           | 160.4                | 0.022             |
| 8000           | 186.5                | 0.019             |
| 10000          | 209.8                | 0.017             |
| 12000          | 231.1                | 0.015             |
| 18000          | 287.1                | 0.012             |
| 26500          | 354.0                | 0.010             |
| 40000          | 444.0                | 0.008             |



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