

# CFT420

Flexible, Ultra Low-Loss, Long Bending Life,

Suitable for Precision Testing, Phase & Amplitude Stable RF Coaxial Cable

Ver: DA-A01



## Structure & Dimension

|   | Structure       | Dimension (mm) | Material                    |
|---|-----------------|----------------|-----------------------------|
| 1 | Inner Conductor | 0.91           | Silver Plated Copper        |
| 2 | Insulating      | 2.70           | LD-PTFE                     |
| 3 | Outer Conductor | 2.86           | Silver Plated Copper Ribbon |
| 4 | Sandwich layer  | 3.25           | PTFE                        |
| 5 | Shielding       | 3.65           | Silver Plated Copper        |
| 6 | Jacket          | 4.20           | FEP                         |

## Specification

|   |                             |          |
|---|-----------------------------|----------|
| 1 | Operating Frequency(GHz)    | 40       |
| 2 | Impedance(Ohms)             | 50       |
| 3 | Velocity of Propagation     | 76%      |
| 4 | Voltage Withstand (V,DC)    | 1000     |
| 5 | Shielding Effectiveness(dB) | ≥90      |
| 6 | Weight(g/m)                 | 43       |
| 7 | Single Bend Radius(mm)      | 21.00    |
| 8 | Repeated Bend Radius(mm)    | 42.00    |
| 9 | Temperature Range(°C)       | -55~+165 |

## Attenuation (Typical@25°C & VSWR=1.0) VS. Frequency VS. Power (VSWR=1.0; 40°C; Sea Level)

|                    |       |       |       |       |       |       |       |       |       |       |       |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Frequency (MHz)    | 300   | 1000  | 2000  | 3000  | 6000  | 8000  | 10000 | 12000 | 18000 | 26500 | 40000 |
| Attenuation (dB/m) | 0.215 | 0.394 | 0.560 | 0.689 | 0.982 | 1.139 | 1.279 | 1.406 | 1.737 | 2.129 | 2.650 |
| Average Power (KW) | 1.382 | 0.753 | 0.530 | 0.431 | 0.302 | 0.261 | 0.232 | 0.211 | 0.171 | 0.139 | 0.112 |

$$K1=1.2325790$$

$$K2=0.0004620$$

$$\text{Calculate Attenuation} = K1*\sqrt{\text{FMHz}}+K2*\text{FMHz}$$



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