

# CFT780M

Flexible, Ultra Low-Loss, Long Bending Life,

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

Ver: S-A01



## Structure & Dimension

|   | Structure       | Dimension (mm) | Material                        |
|---|-----------------|----------------|---------------------------------|
| 1 | Inner Conductor | 2.39           | Silver Plated Copper (Stranded) |
| 2 | Insulating      | 6.16           | LD-PTFE                         |
| 3 | Outer Conductor | 6.40           | Silver Plated Copper Ribbon     |
| 4 | Sandwich layer  | 6.70           | PTFE                            |
| 5 | Shielding       | 7.25           | Silver Plated Copper            |
| 6 | Jacket          | 7.80           | FEP                             |

## Specification

|   |                             |          |
|---|-----------------------------|----------|
| 1 | Operating Frequency(GHz)    | 18       |
| 2 | Impedance(Ohms)             | 50       |
| 3 | Velocity of Propagation     | 84%      |
| 4 | Voltage Withstand (V,DC)    | 2000     |
| 5 | Shielding Effectiveness(dB) | ≥90      |
| 6 | Weight(g/m)                 | 123      |
| 7 | Single Bend Radius(mm)      | 39.00    |
| 8 | Repeated Bend Radius(mm)    | 78.00    |
| 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)    | 1000  | 2000  | 3000  | 6000  | 8000  | 10000 | 12400 | 18000 |
| Attenuation (dB/m) | 0.167 | 0.238 | 0.293 | 0.421 | 0.489 | 0.550 | 0.617 | 0.753 |
| Average Power (KW) | 1.604 | 1.125 | 0.913 | 0.637 | 0.548 | 0.487 | 0.435 | 0.356 |

$$K1=0.5183000$$

$$K2=0.0003200$$

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



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