

CFT500MW

Flexible, Low-Loss, Long Bending Life,

Suitable for Precision Testing, Phase & Amplitude Stable Coaxial Cable



| Structure & Dimension | | | |
|-----------------------|-----------------|----------------|---------------------------------------------|
| | Structure | Dimension (mm) | Material |
| 1 | Inner Conductor | 1.44 | Silver Plated Copper (Multi-fiber Stranded) |
| 2 | Wrapping layer | | FEP |
| 3 | Insulating | 3.85 | LD-PTFE |
| 4 | Outer Conductor | 4.05 | Silver Plated Copper Ribbon |
| 5 | Sandwich layer | 4.30 | PTFE |
| 6 | Shielding | 4.65 | Silver Plated Copper |
| 7 | Jacket | 5.10 | FEP |

| Specification | | |
|---------------|-------------------------------|---------------------------------------------------------|
| | Specification | Value |
| 1 | Operating Frequency (GHz) | 26.5 |
| 2 | Impedance (Ohms) | 50 |
| 3 | Phase Stability | $\leq \pm 3^\circ$ @18GHz ; $\leq \pm 5^\circ$ @26.5GHz |
| 4 | Phase Stability (Temperature) | $< 750\text{PPM}$ @-55°C~+85°C |
| 5 | Amplitude Stability | $\leq \pm 0.1\text{dB}$ @18GHz |
| 6 | Velocity of Propagation | 82% |
| 7 | Voltage Withstand (V,DC) | 2000 |
| 8 | Shielding Effectiveness(dB) | > 90 |
| 9 | Weight(g/m) | 60 |
| 10 | Single Bend Radius(mm) | 25.00 |
| 11 | Repeated Bend Radius(mm) | 50.00 |
| 12 | Temperature Range(°C) | -55~+165 |

| Attenuation VS. Frequency VS. Power | | | | | | | | | |
|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Frequency (MHz) | 1000 | 2000 | 4000 | 6000 | 8000 | 10000 | 12400 | 18000 | 26500 |
| Attenuation (dB/m) | 0.271 | 0.389 | 0.560 | 0.696 | 0.813 | 0.919 | 1.035 | 1.274 | 1.588 |
| Average Power (KW) | 0.821 | 0.573 | 0.397 | 0.320 | 0.274 | 0.242 | 0.215 | 0.175 | 0.140 |