

CFS480

Flexible, Ultra Low-Loss,
Phase & Amplitude Stable Coaxial Cable



Structure & Dimension

| | Structure | Dimension (mm) | Material |
|---|-----------------|----------------|-----------------------------|
| 1 | Inner Conductor | 1.40 | Silver Plated Copper |
| 2 | Insulating | 3.80 | LD-PTFE |
| 3 | Outer Conductor | 3.95 | Silver Plated Copper Ribbon |
| 4 | Shielding | 4.35 | Silver Plated Copper |
| 5 | Jacket | 4.80 | PFA |

Specification

| | | |
|----|-------------------------------|---|
| 1 | Operating Frequency (GHz) | 26.5 |
| 2 | Impedance (Ohms) | 50 |
| 3 | Phase Stability | $\leq \pm 2^\circ$ @ 10 GHz ; $\leq \pm 3^\circ$ @ 18 GHz |
| 4 | Phase Stability (Temperature) | < 750 PPM @ -55°C ~ +85°C |
| 5 | Amplitude Stability | $\leq \pm 0.1$ dB @ 18 GHz |
| 6 | Velocity of Propagation | 83% |
| 7 | Voltage Withstand (V,DC) | 1500 |
| 8 | Shielding Effectiveness (dB) | > 90 |
| 9 | Weight (g/m) | 58 |
| 10 | Single Bend Radius (mm) | 24.00 |
| 11 | Repeated Bend Radius (mm) | 48.00 |
| 12 | Temperature Range (°C) | -55 ~ +165 |

Attenuation VS. Frequency

| Frequency (MHz) | 100 | 300 | 500 | 1000 | 3000 | 5000 | 6000 | 10000 | 12400 | 18000 | 26500 | | |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|
| Attenuation (dB/m) | 0.075 | 0.131 | 0.169 | 0.241 | 0.421 | 0.547 | 0.601 | 0.783 | 0.876 | 1.066 | 1.308 | | |
| Average Power (KW) | 2.934 | 1.689 | 1.305 | 0.919 | 0.525 | 0.404 | 0.368 | 0.282 | 0.252 | 0.207 | 0.169 | | |