

## CFE800

Flexible, Low-Loss,  
Economy RF Coaxial Cable

Ver: S-A01



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### Structure & Dimension

|   | Structure       | Dimension (mm) | Material              |
|---|-----------------|----------------|-----------------------|
| 1 | Inner Conductor | 2.30           | Silver Plated Copper  |
| 2 | Insulating      | 6.80           | LD-PTFE               |
| 3 | Outer Conductor | 6.95           | Self-adhesive Al Foil |
| 4 | Shielding       | 7.50           | Silver Plated Copper  |
| 5 | Jacket          | 8.10           | FEP                   |

### Specification

|   |                             |          |
|---|-----------------------------|----------|
| 1 | Operating Frequency(GHz)    | 16       |
| 2 | Impedance(Ohms)             | 50       |
| 3 | Velocity of Propagation     | 76%      |
| 4 | Voltage Withstand (V,DC)    | 2500     |
| 5 | Shielding Effectiveness(dB) | ≥70      |
| 6 | Weight(g/m)                 | 134      |
| 7 | Single Bend Radius(mm)      | 41.00    |
| 8 | Repeated Bend Radius(mm)    | 81.00    |
| 9 | Temperature Range(°C)       | -55~+125 |

### 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 | 16000 |
| Attenuation (dB/m) | 0.151 | 0.218 | 0.272 | 0.401 | 0.473 | 0.538 | 0.610 | 0.710 |
| Average Power (KW) | 1.933 | 1.334 | 1.069 | 0.726 | 0.616 | 0.541 | 0.477 | 0.410 |

$$K1=0.4480000$$

$$K2=0.0008980$$

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



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