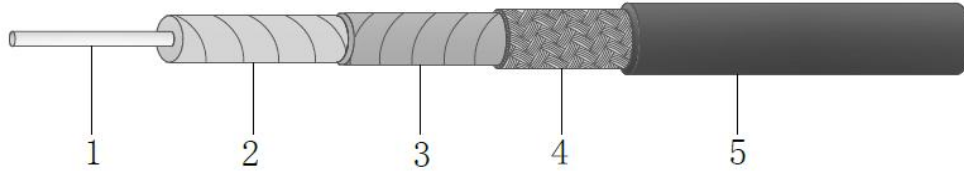


CTFB-800



Low Loss Phase Stable High Frequency Cable



Construction Specification

| structure | Diameter(mm) | tolerance | Materials |
|-------------------|--------------|-----------|--------------------------------|
| 1.Inner Conductor | 2.30 | ±0.03 | Silver Plated Copper |
| 2.Dielectric | 6.25 | ±0.1 | LD-PTFE |
| 3.Outer Conductor | 6.57 | ±0.1 | Flat Silver Plated Copper Wrap |
| 4.Innerlayer | 7.15 | ±0.12 | Silver Plated Copper |
| 5.Jacket | 7.80 | ±0.15 | FEP |

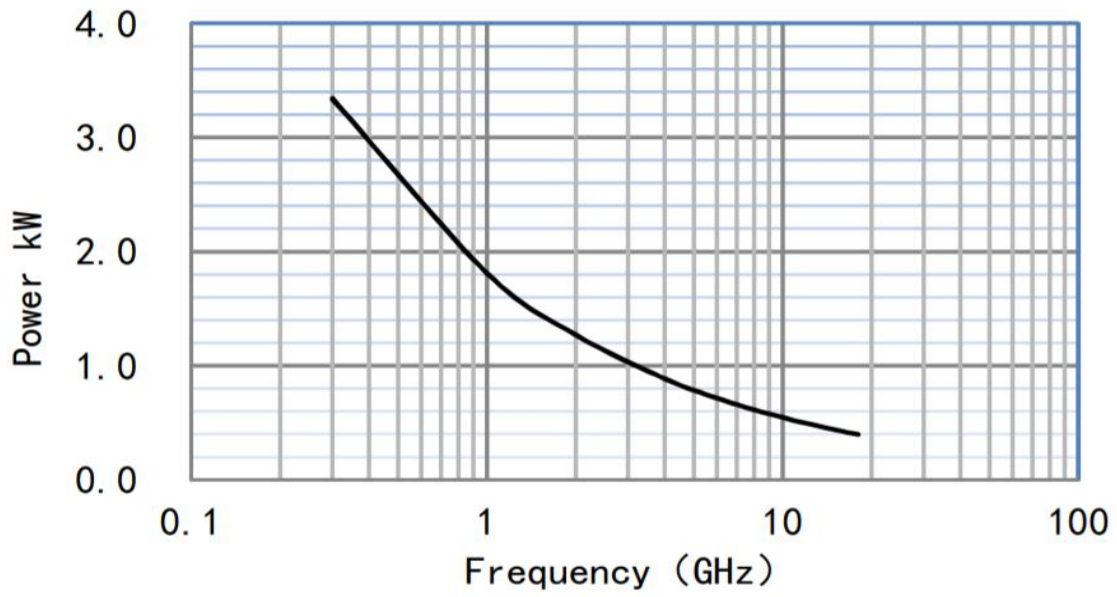
Electrical Characteristics

| | |
|--------------------------|-------------|
| Frequency(GHz) | DC to 18GHz |
| Impedance | 50Ohm |
| Velocity(%) | 83% |
| Shielding Efficiency(dB) | >90 |
| Withstand Voltage(V, DC) | 3600 DC |

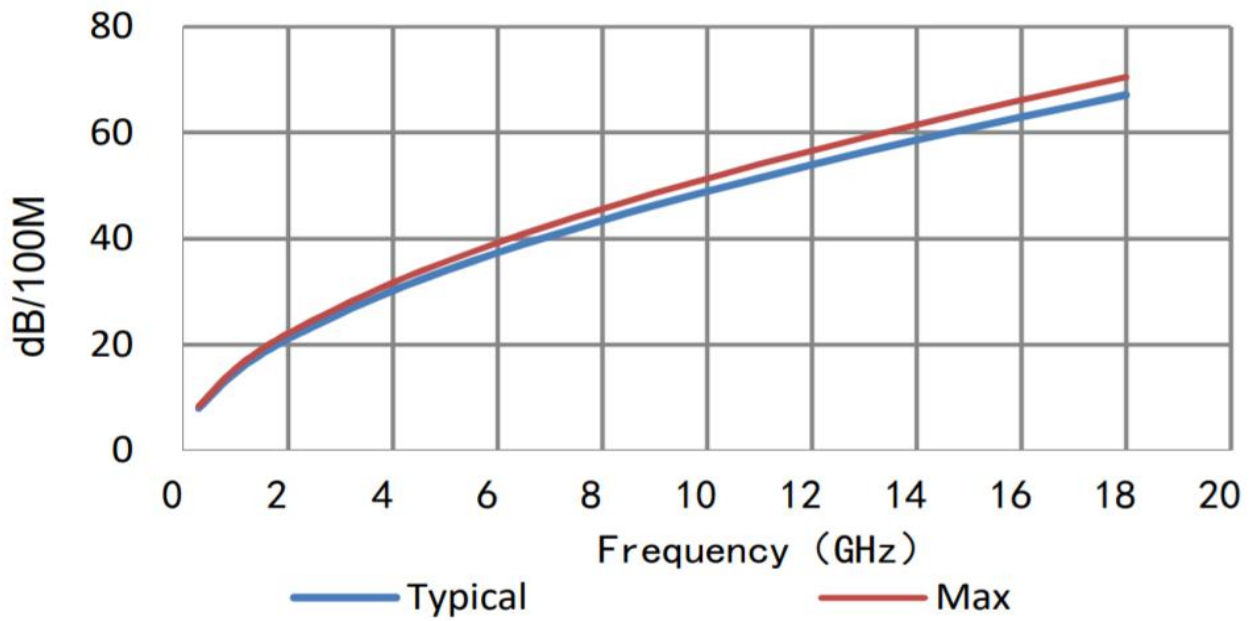
Mechanical Characteristics

| | |
|--------------------------------------|------------|
| Min.Bending Radius with Install (mm) | 35 |
| Min.Bending Radius with Repeat (mm) | 80 |
| Weight (g/m) | 130 |
| Operating Temp.(°C) | -55 to 165 |

Avg. Power



Attenuation



Attenuation (@25°C & VSWR=1.0) and Average power (@40°C standard atmosphere)

| Frequency (MHz) | dB/100M | Average Power(KW) |
|-----------------|---------|-------------------|
| 300 | 8.00 | 3.341 |
| 1000 | 14.80 | 1.812 |
| 2000 | 21.10 | 1.269 |
| 4000 | 30.20 | 0.886 |
| 6000 | 37.30 | 0.716 |
| 8000 | 43.40 | 0.615 |
| 10000 | 48.90 | 0.547 |
| 12000 | 53.90 | 0.496 |
| 14000 | 58.60 | 0.456 |
| 16000 | 63.00 | 0.425 |
| 18000 | 67.10 | 0.398 |

Note: K1=0.4563799, K2=0.0003280 Formulas= $K1 \cdot \sqrt{FMHz} + K2 \cdot FMHz$