

Features & Benefits

- Attractive cost vs performance ratio
- Low VSWR typical 1.20 to 18 GHz
- Good amplitude stability vs flex
- Up to 18GHz with low attenuation

Cable Construction



| No. | Construction | Size (mm) | Materials |
|-----|------------------|-----------|---------------------------------|
| 1 | Center conductor | 0.94 | Solid silver plated copper |
| 2 | Dielectric | 2.75 | Low density PTFE |
| 3 | Outer conductor | 2.80 | Aluminum foil wrap |
| 4 | Outer shield | 3.20 | Silver-plated copper wire braid |
| 5 | Jacket | 3.50 | FEP |



Electrical

| | |
|--------------------------------|-----------|
| Frequency | DC-18 GHz |
| Impedance | 50 Ω |
| Velocity of Propagation | 76% |
| Shielding Effectiveness | >90 dB |
| Withstanding Voltage | 800 V |
| Mechanical Phase Stability* | <±8° |
| Amplitude Stability vs Shaking | <±0.1dB |

* Wrapped 360° around a 35mm radius mandrel.

Mechanical & Environmental

| | |
|------------------------------|------------|
| Min. Bending Radius Static | 14mm |
| Min. Bending Radius Repeated | 35mm |
| Weight | 29g/m |
| Temperature(Operation) | -55~150 °C |
| Temperature(Storage) | -60~160 °C |

Attenuation(Typical@25°C&VSWR=1.0) & Power(VSWR=1.0; 40°C; Sea level)

| | | | | | | | | | | | |
|---------------|--|-------|-------|-------|-------|-------|------------|-------|-------|-------|-------|
| Frequency MHz | 300 | 700 | 1000 | 2000 | 6000 | 8000 | 10000 | 12000 | 14000 | 16000 | 18000 |
| dB/100 Meter | 20.9 | 32.1 | 38.6 | 55.1 | 97.6 | 113.6 | 128.0 | 141.1 | 153.3 | 164.8 | 175.7 |
| Avg.Power kW | 0.850 | 0.553 | 0.461 | 0.323 | 0.182 | 0.156 | 0.139 | 0.126 | 0.116 | 0.108 | 0.101 |
| | K1=1.191839 | | | | | | K2=0.00088 | | | | |
| | Attenuation at any frequency=[K1×SQRT(FMHz)]+[K2×FMHz] | | | | | | | | | | |

Available connectors

| Cable P/N | Connectors | Gender | Orientation | Mounting | Max Freq.(GHz) | VSWR Max |
|-----------|------------|--------|-------------|----------|----------------|----------|
| LE350 | SMA | M/F | Straight | Standard | 18 | 1.25/1.3 |
| LE350 | N | M/F | Straight | Standard | 18 | 1.3/1.35 |

The connectors are available in both clamp and direct solder types. Other connectors available upon request.