

FSD-141-TM

P/N 9608

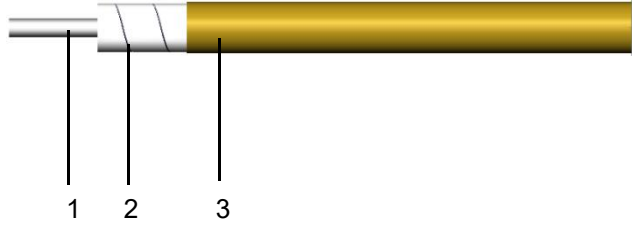
High Performance Low Loss Semi-Rigid Coax Cable

Ver A Release Date Jan, 2017



Features&Benefits

- LD-PTDE Tape Wrapping Core
- Ultra Low Loss, Excellent size stable vs. temp
- Equivalent to CLL-50141
- Replace to UT-141-LL



Construction Specification

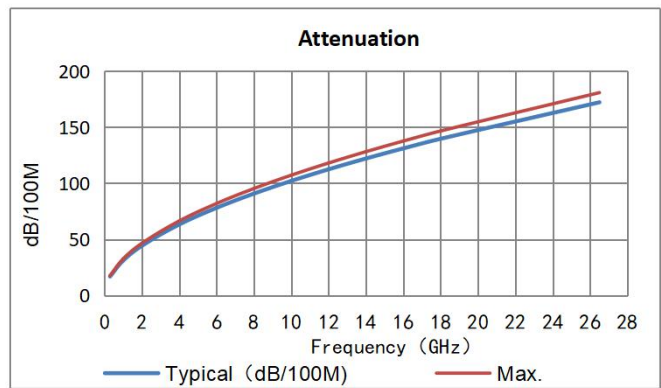
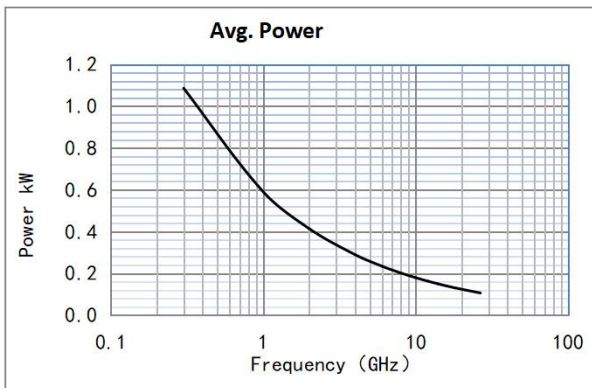
| | Description | Size (mm) | Tol. | Materials |
|---|------------------|-----------|-------|---|
| 1 | Center conductor | 0.99 | ±0.02 | SPC |
| 2 | Dielectric | 3.00 | ±0.05 | LD PTFE |
| 3 | Outer conductor | 3.58 | ±0.06 | Seamless Copper Tube Tri-Metal Plating |

Mechanical&Environmental Specifications

| | |
|-----------------------------------|---------|
| Bend Radius:installation (mm) | 12.5 |
| Bend Radius:repeated (mm) | N/A |
| Weight (g/m) | 43 |
| Temp, Operating&Installation (°C) | -60~250 |
| Temp, Storage (°C) | -65~250 |

Electrical Specifications

| | |
|------------------------------|------|
| Operation Frequency (GHz) | 26.5 |
| Impedance (Ohms) | 50 |
| Velocity of Propagation | 76% |
| Shielding Effectiveness (dB) | 165 |
| Voltage Withstand (V,DC) | 1300 |



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

| | | | | | | | | | | | | |
|---------------|---------------|-------|-------|-------|-------|---------------|-------|-------|-------|-------|-------|-------|
| Frequency MHz | 300 | 1000 | 2000 | 4000 | 6000 | 8000 | 10000 | 12000 | 14000 | 16000 | 18000 | 26500 |
| dB/100 m | 16.8 | 31.0 | 44.2 | 63.1 | 78.0 | 90.7 | 102.0 | 112.4 | 122.0 | 131.0 | 139.6 | 172.1 |
| Avg.Power kW | 1.086 | 0.590 | 0.414 | 0.289 | 0.234 | 0.201 | 0.179 | 0.163 | 0.150 | 0.139 | 0.131 | 0.106 |
| | K1= 0.9610400 | | | | | K2= 0.0005904 | | | | | | |

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

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