

RFSF520

Ultra Low Loss Phase Stable Coax Cable

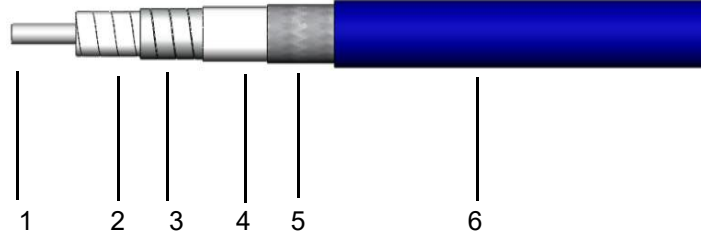
Ver A1 Release Date Match, 2018



P/N: 15052

Features&Benefits

- 76%Vp PTFE Tape+SPC Foil+SPC Shield
- Stranded SPC Wire+PUR Jacket
- Excellent Flexible
- Excellent Stability and Durability



Construction Specification

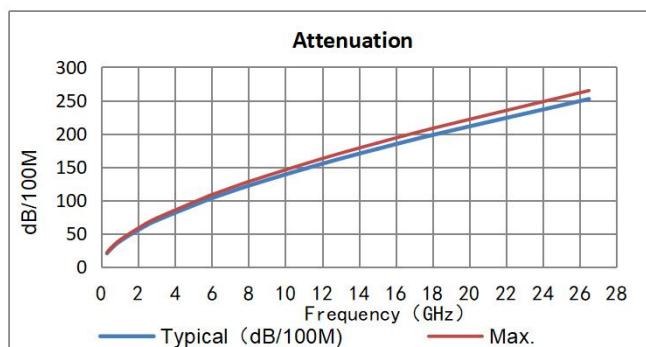
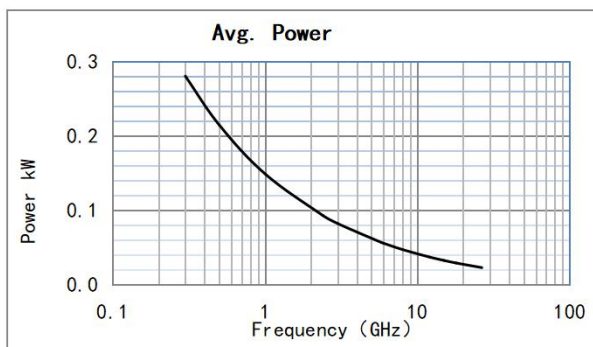
| | Description | Size (mm) | Tol. | Materials |
|---|------------------|-----------|-------|-------------------------------|
| 1 | Center conductor | 1.02 | ±0.02 | Stranded Silver Plated Copper |
| 2 | Dielectric | 3.03 | ±0.03 | LD PTFE |
| 3 | Outer conductor | 3.22 | ±0.10 | Silver Plated Copper Foil |
| 4 | Innerlayer | 3.46 | ±0.10 | PTFE |
| 5 | Outer shield | 4.04 | ±0.15 | Silver Plated Copper Wire |
| 6 | Jacket | 5.20 | ±0.20 | PUR Blue or customize |

Mechanical&Environmental Specifications

| | |
|-----------------------------------|--------|
| Bend Radius:installation (mm) | 20 |
| Bend Radius:repeated (mm) | 40 |
| Weight (g/m) | 50 |
| Temp, Operating&Installation (°C) | -55~85 |
| Cutoff Frequency(GHz) | 35 |

Electrical Specifications

| | |
|------------------------------|------|
| Operation Frequency (GHz) | 26.5 |
| Impedance (Ohms) | 50 |
| Velocity of Propagation(%) | 76 |
| Shielding Effectiveness (dB) | ≥90 |
| Voltage Withstand (V,DC) | 1000 |



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

| | | | | | | | | | | | | |
|---------------|-------|-------|-------|-------|-------|---------------|-------|-------|-------|-------|-------|-------|
| Frequency MHz | 300 | 500 | 1000 | 2400 | 3000 | 5800 | 6000 | 8000 | 12000 | 15000 | 18000 | 26500 |
| dB/100 m | 20.4 | 26.7 | 38.5 | 61.8 | 69.8 | 101.2 | 103.2 | 121.9 | 154.9 | 177.2 | 198.0 | 252.1 |
| Avg.Power kW | 0.280 | 0.215 | 0.149 | 0.093 | 0.082 | 0.057 | 0.055 | 0.047 | 0.037 | 0.032 | 0.029 | 0.023 |
| K1= 1.1366000 | | | | | | K2= 0.0025300 | | | | | | |

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

Maximum attenuation is 10% higher.

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