

RFSC1500

Ultra Low Loss Phase Stable Coax Cable

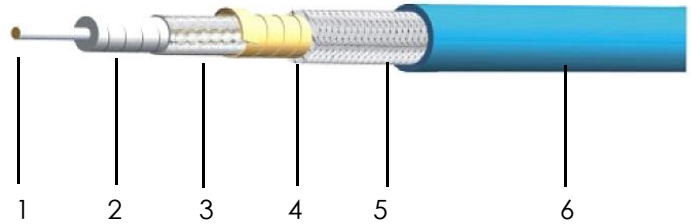
Ver A1 Release Date Match, 2015



P/N: 12150

Features&Benefits

- 76%Vp PTFE Tape+SPC Ribbon+Tri-shields
- Ultra-low loss, Better bending performance,Durable
- Equivalent to
- Replace to



Construction Specification

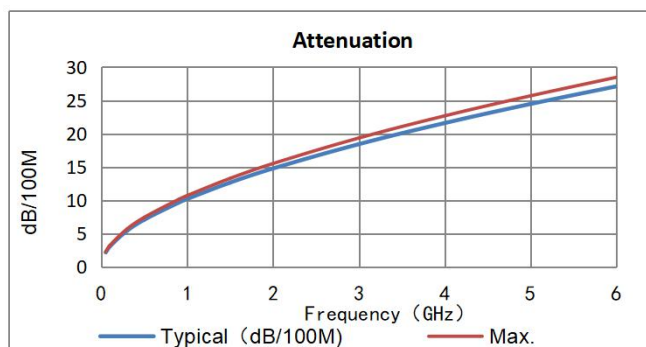
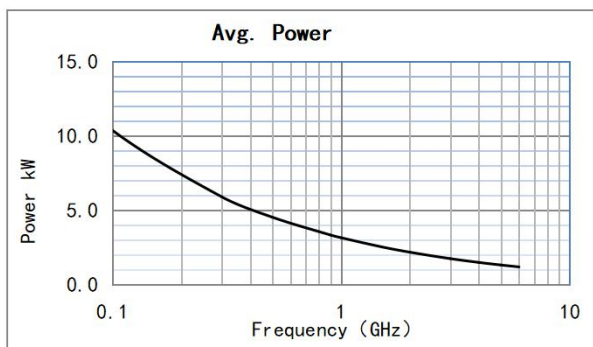
| | Description | Size (mm) | Tol. | Materials |
|---|------------------|--------------|-------|---------------------------|
| 1 | Center conductor | 4.47(1.49*7) | ±0.02 | Silver Plated Copper |
| 2 | Dielectric | 12.50 | ±0.10 | LD PTFE |
| 3 | Outer conductor | 12.82 | ±0.10 | Silver Plated Copper Foil |
| 4 | Inner layer | 12.95 | ±0.10 | Aluminum Laminate |
| 5 | Outer shield | 13.67 | ±0.12 | Silver Plated Copper |
| 6 | Jacket | 15.30 | ±0.15 | FEP Blue or customize |

Mechanical&Environmental Specifications

| | |
|-----------------------------------|---------|
| Bend Radius:installation (mm) | 76 |
| Bend Radius:repeated (mm) | 150 |
| Weight (g/m) | 400 |
| Temp, Operating&Installation (°C) | -55~165 |
| Temp, Storage (°C) | -65~165 |

Electrical Specifications

| | |
|------------------------------|------|
| Operation Frequency (GHz) | 6.0 |
| Impedance (Ohms) | 50 |
| Velocity of Propagation(%) | 76 |
| Shielding Effectiveness (dB) | ≥100 |
| Voltage Withstand (V,DC) | 4000 |



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

| | | | | | | | | | | | | |
|---------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Frequency MHz | 50 | 100 | 300 | 500 | 900 | 1000 | 1500 | 2000 | 3000 | 4000 | 5000 | 6000 |
| dB/100 m | 2.2 | 3.1 | 5.4 | 7.1 | 9.7 | 10.2 | 12.7 | 14.8 | 18.4 | 21.6 | 24.5 | 27.1 |
| Avg.Power kW | 14.720 | 10.348 | 5.892 | 4.521 | 3.323 | 3.143 | 2.533 | 2.170 | 1.741 | 1.485 | 1.312 | 1.184 |

K1= 0.3042080

K2= 0.0005910

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

Maximum attenuation is 10% higher.

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