

RFSH500

Ultra Low Loss Phase Stable Coax Cable

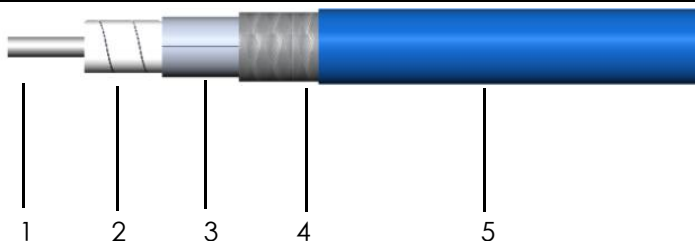
Ver A1 Release Date Match, 2018



P/N: 17050

Features&Benefits

- 77%Vp PTFE Tape+AL Foil+SPC shield
- Low Loss
- Excellent Cost Effectiveness
- Excellent Flexible



Construction Specification

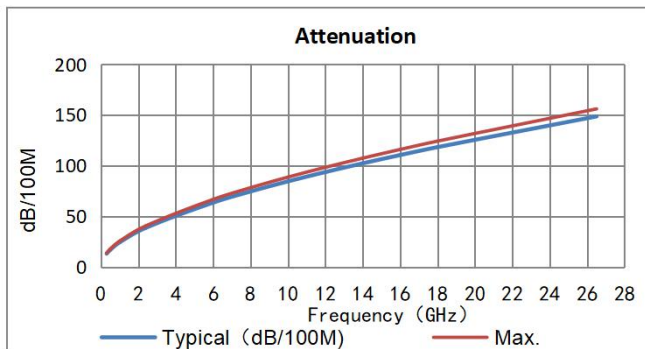
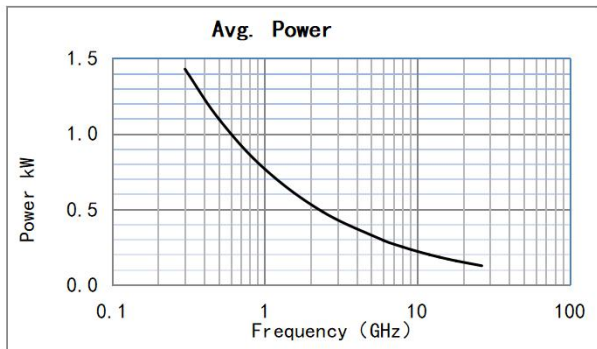
	Description	Size (mm)	Tol.	Materials
1	Center conductor	1.45	±0.03	Silver Plated Copper
2	Dielectric	4.25	±0.05	LD PTFE
3	Outer conductor	4.35	±0.05	Aluminium Foil
4	Outer shield	4.85	±0.12	Silver Plated Copper Wire
5	Jacket	5.20	±0.15	FEP Blue or Customized

Mechanical&Environmental Specifications

Bend Radius:installation (mm)	20
Bend Radius:repeated (mm)	52
Weight (g/m)	60
Temp, Operating&Installation (°C)	-55~125
Cutoff Frequency(GHz)	23

Electrical Specifications

Operation Frequency (GHz)	18	Bending phase±5°@13.5GHz
Impedance (Ohms)	50	Mech. phase±0.10@13.5GHz
Velocity of Propagation(%)	77	
Shielding Effectiveness (dB)	≥90	
Voltage Withstand (V,DC)	1500	



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

Frequency MHz	300	500	1000	2400	6000	8000	10000	12000	14000	16000	18000	26500
dB/100 m	13.1	17.0	24.3	38.6	63.5	74.4	84.4	93.6	102.2	110.4	118.2	148.5
Avg.Power kW	1.428	1.098	0.766	0.483	0.294	0.250	0.221	0.199	0.182	0.169	0.158	0.126

K1= 0.7350000

K2= 0.0010880

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

Maximum attenuation is 10% higher.

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