

# RFSH1500

Ultra Low Loss Phase Stable Coax Cable

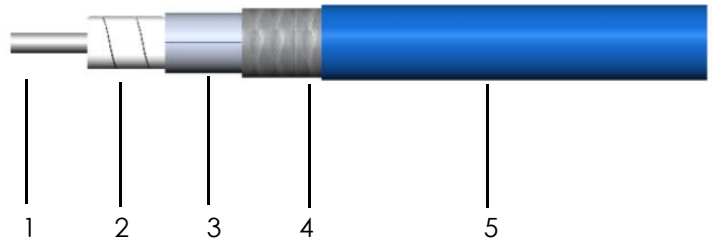
Ver A1 Release Date Match, 2018



P/N: 17150

## Features&Benefits

- 84%Vp PTFE Tape+AL Foil+SPC shield
- Low Loss
- Excellent Cost Effectiveness
- Excellent Flexible



## Construction Specification

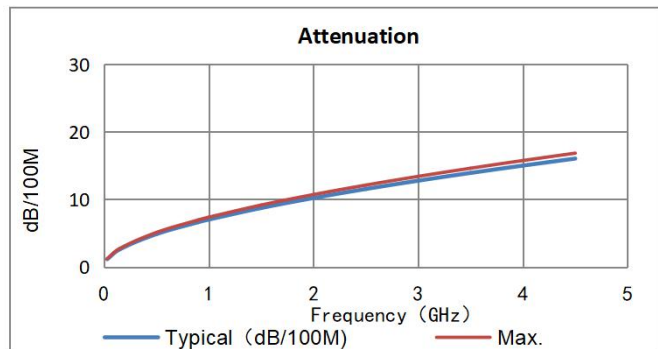
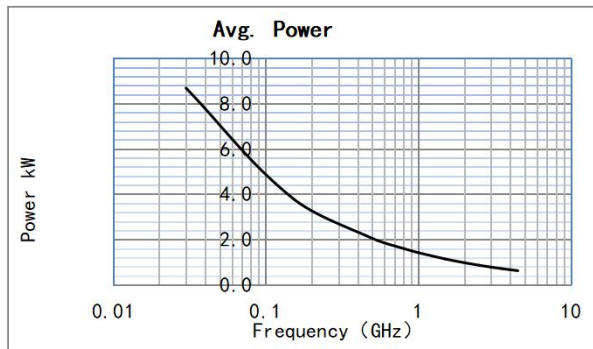
	Description	Size (mm)	Tol.	Materials
1	Center conductor	5.20	±0.10	Silver Plated Copper
2	Dielectric	13.50	±0.20	LD PTFE
3	Outer conductor	14.00	±0.15	Copper Foil
4	Outer shield	14.70	±0.20	Silver Plated Copper Wire
5	Jacket	15.50	±0.25	FEP Blue or Customized

## Mechanical&Environmental Specifications

Bend Radius:installation (mm)	35
Bend Radius:repeated (mm)	155
Weight (g/m)	305
Temp, Operating&Installation (°C)	-55~165
Cutoff Frequency(GHz)	6

## Electrical Specifications

Operation Frequency (GHz)	4	Bending phase±8°@13.5GHz
Impedance (Ohms)	50	Mech. phase±0.10@13.5GHz
Velocity of Propagation(%)	84	
Shielding Effectiveness (dB)	≥90	
Voltage Withstand (V,DC)	5000	



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

Frequency MHz	30	150	500	900	1000	1500	2000	2500	3000	3500	4000	4500
dB/100 m	1.1	2.6	4.9	6.6	7.0	8.7	10.2	11.5	12.8	13.9	15.0	16.0
Avg.Power kW	8.684	3.823	2.046	1.499	1.417	1.139	0.974	0.861	0.778	0.714	0.662	0.619

$$K1 = 0.2060011$$

$$K2 = 0.0004911$$

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

Maximum attenuation is 10% higher.

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