

RFSH500C

Ultra Low Loss Phase Stable Coax Cable

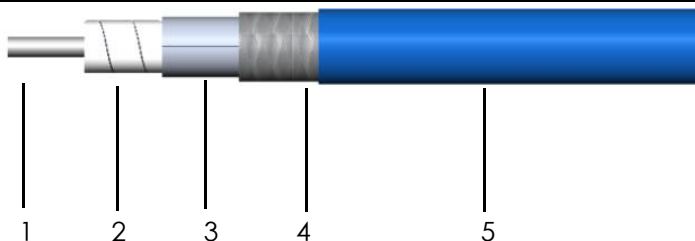
Ver A1 Release Date Match, 2018



P/N: 17050C

Features&Benefits

- 76%Vp PTFE Tape+AL Foil+SPC shield
- Low Loss
- Excellent Cost Effectiveness
- Excellent Flexible



Construction Specification

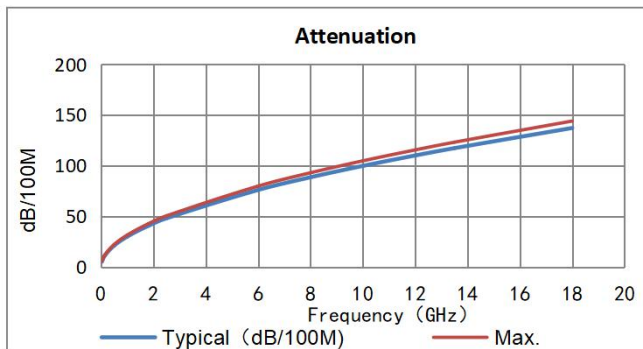
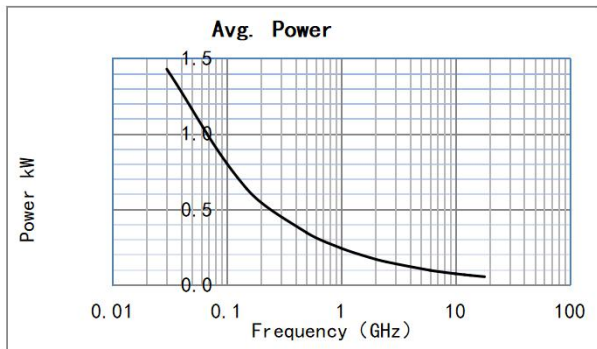
	Description	Size (mm)	Tol.	Materials
1	Center conductor	1.30	±0.03	Bare Copper
2	Dielectric	3.70	±0.05	LD PTFE
3	Outer conductor	3.85	±0.05	Aluminium Foil
4	Outer shield	4.35	±0.12	Silver Plated Copper Wire
5	Jacket	5.00	±0.15	FEP Blue or Customized

Mechanical&Environmental Specifications

Bend Radius:installation (mm)	28
Bend Radius:repeated (mm)	52
Weight (g/m)	60
Temp, Operating&Installation (°C)	-55~125
Cutoff Frequency(GHz)	23

Electrical Specifications

Operation Frequency (GHz)	13	Mech. phase ±0.10@13GHz
Impedance (Ohms)	50	
Velocity of Propagation(%)	76	
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	30	150	500	1000	1800	2500	6000	8000	10000	12000	13500	18000
dB/100 m	5.1	11.4	21.0	29.9	40.5	48.0	75.9	88.4	99.7	109.9	117.2	137.1
Avg.Power kW	1.428	0.635	0.345	0.242	0.179	0.151	0.096	0.082	0.073	0.066	0.062	0.053

K1= 0.9230544

K2= 0.0007350

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

Maximum attenuation is 10% higher.

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