

# RFSC330

Ultra Low Loss Phase Stable Coax Cable

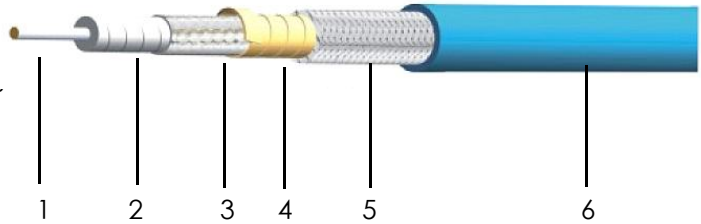
Ver A1 Release Date Match, 2015



P/N: 12033

## Features&Benefits

- 74%Vp PTFE Tape+SPC Ribbon+Tri-shields
- Ultra-low loss, Better bending performance,Durabl
- Equivalent to
- Replace to



## Construction Specification

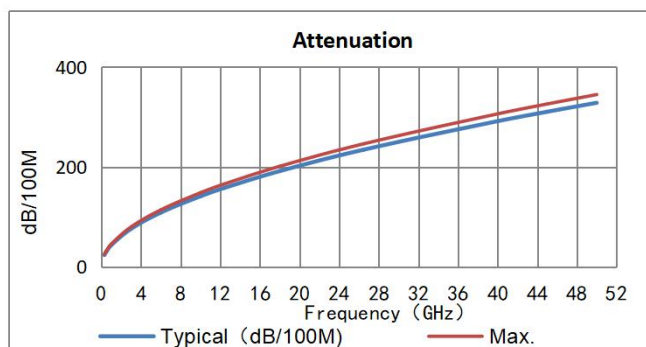
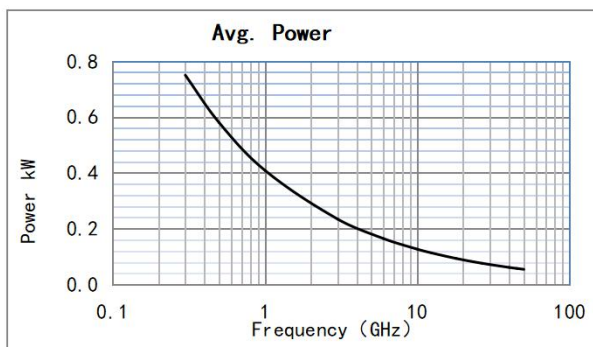
	Description	Size (mm)	Tol.	Materials
1	Center conductor	0.72	±0.02	Silver Plated Copper
2	Dielectric	2.21	±0.05	LD PTFE
3	Outer conductor	2.38	±0.05	Silver Plated Copper Foil
4	Innerlayer	2.68	±0.05	PTFE
5	Outer shield	3.15	±0.10	Silver Plated Copper
6	Jacket	3.57	±0.10	FEP Blue or customize

## Mechanical&Environmental Specifications

Bend Radius:installation (mm)	14.2
Bend Radius:repeated (mm)	35.7
Weight (g/m)	32
Temp, Operating&Installation (°C)	-55~165
Cutoff Frequency(GHz)	50

## Electrical Specifications

Operation Frequency (GHz)	50.0	Bending phase	±5°@50GHz
Impedance (Ohms)	50	Mech. phase	±0.08@50GHz
Velocity of Propagation	74%		
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	3000	6000	10000	12400	18000	26500	40000	45000	50000
dB/100 m	23.9	30.9	43.8	76.4	108.8	141.5	158.1	191.8	234.8	291.7	310.6	328.5
Avg.Power kW	0.750	0.580	0.409	0.234	0.165	0.127	0.113	0.093	0.076	0.061	0.058	0.055

$$K1= 1.3707349$$

$$K2= 0.0004400$$

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

Maximum attenuation is 10% higher.

Defined by: Luke

Shenzhen RFcoms Technology Co.,LTD

Prepared by: Eric

Website: www.rfcoms.com

Approved by: K.F. Lu

Tell: +86 13480725660 Fax:+86-755-28908582

Rev: A/0

Email: luke@rfcoms.com

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