

# RFSA390

Ultra Low Loss Phase Stable Coax Cable

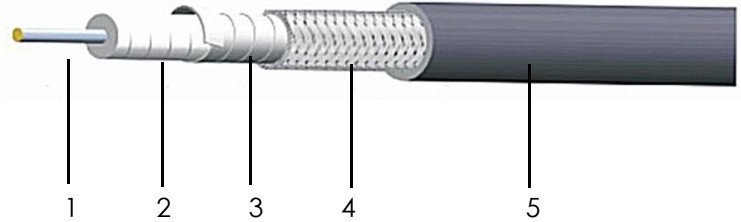
Ver A1 Release Date Match, 2018



P/N: 10039

## Features&Benefits

- 82%Vp PTFE Tape+SPC Foil
- Ultra Low Loss, Excellent Temp Phase Stable
- Equivalent to
- Replace to



## Construction Specification

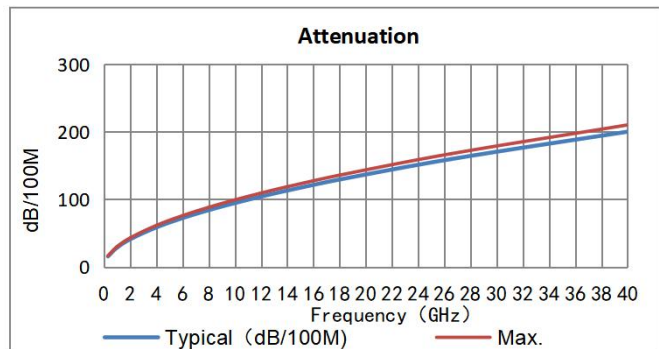
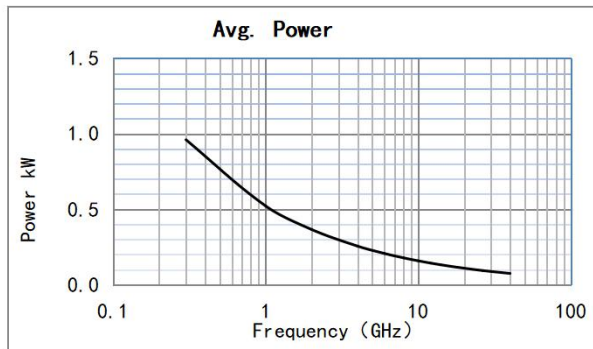
	Description	Size (mm)	Tol.	Materials
1	Center conductor	1.05	±0.03	Silver Plated Copper
2	Dielectric	2.88	±0.05	LD PTFE
3	Outer conductor	3.08	±0.05	Silver Plated Copper Foil
4	Outer shield	3.48	±0.12	Silver Plated Copper
5	Jacket	3.90	±0.15	FEP Gray or Customized

## Mechanical&Environmental Specifications

Bend Radius:installation (mm)	20
Bend Radius:repeated (mm)	39
Weight (g/m)	38
Temp, Operating&Installation (°C)	-55~165
Cutoff Frequency(GHz)	40

## Electrical Specifications

Operation Frequency (GHz)	40	Bending phase	±8°@40GHz
Impedance (Ohms)	50	Temp. phase	600PPM
Velocity of Propagation(%)	82	Mech. phase	±0.10@40GHz
Shielding Effectiveness (dB)	≥90		
Voltage Withstand (V,DC)	900		



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

Frequency MHz	300	1000	2000	4000	6000	8000	10000	12000	14000	18000	26500	40000
dB/100 m	15.6	28.7	40.9	58.5	72.2	84.0	94.5	104.1	113.0	129.3	159.5	200.1
Avg.Power kW	0.960	0.521	0.366	0.256	0.207	0.178	0.158	0.144	0.132	0.116	0.094	0.075
K1=	0.8895500					K2=	0.0005550					

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

Maximum attenuation is 10% higher.

Defined by: Luke

Shenzhen RFcoms Technology Co.,LTD

Prepared by: Eric

Website: [www.rfcoms.com](http://www.rfcoms.com)

Approved by: K.F. Lu

Tell: +86 13480725660

Fax:+86-755-28908582

Rev: A/0

Email: [luke@rfcoms.com](mailto:luke@rfcoms.com)

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