

# RFSI250

High Strength Bending Resistant Cable

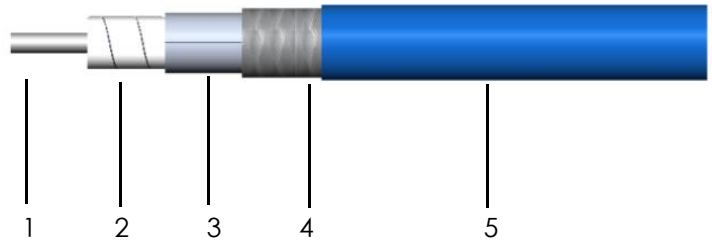
Ver A1 Release Date Match, 2018



P/N: 18025

## Features&Benefits

- 70%Vp PTFE Tape+AL Foil+Steel Wire shield
- Low Loss
- Excellent Cost Effectiveness
- Excellent Pulling Strength



## Construction Specification

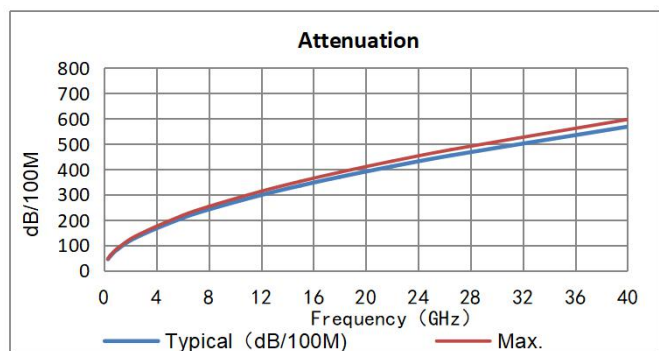
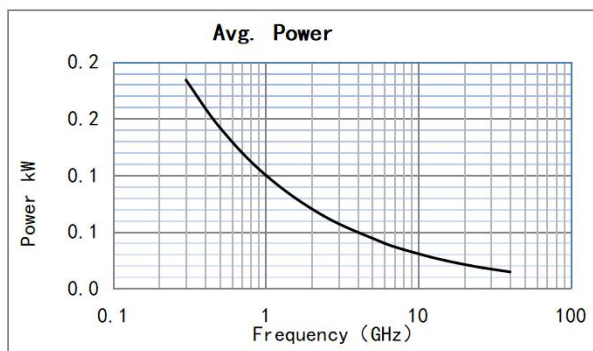
	Description	Size (mm)	Tol.	Materials
1	Center conductor	0.51	±0.01	Silver Plated Copper
2	Dielectric	1.65	±0.05	Extruded PTFE
3	Outer conductor	1.82	±0.08	Silver Plated Copper Flat
4	Innerlayer	1.90	±0.08	High Temperature Aluminium Foil
5	Outer shield	2.12	±0.08	Stainless Steel Wire
6	Jacket	2.53	±0.10	FEP Blue or Customized

## Mechanical&Environmental Specifications

Bend Radius:installation (mm)	10
Bend Radius:repeated (mm)	25
Weight (g/m)	18
Temp, Operating&Installation (°C)	-55~165
Cutoff Frequency(GHz)	62

## Electrical Specifications

Operation Frequency (GHz)	40
Impedance (Ohms)	50
Velocity of Propagation(%)	70
Shielding Effectiveness (dB)	≥90
Voltage Withstand (V,DC)	950



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

Frequency MHz	300	500	1000	2400	6000	8000	12000	15000	18000	22000	26500	40000
dB/100 m	45.1	58.4	82.9	129.6	207.7	241.2	298.3	335.6	369.7	411.4	454.6	568.2
Avg.Power kW	0.184	0.142	0.100	0.064	0.040	0.034	0.028	0.025	0.022	0.020	0.018	0.015
K1=	2.5808091					K2=	0.0013000					

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

Maximum attenuation is 10% higher.

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