

# FSE-500

P/N 9502

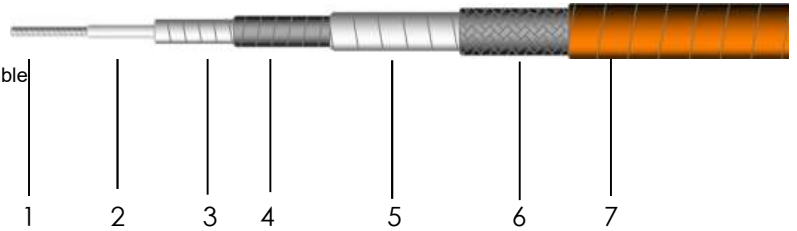


Super soft and low loss stability phase radio frequency cable

Ver A Release Date Aug, 2018

## Features&Benefits

- 83%Vp PTFE Tape+SPC Foil
- Ultra Low Loss, Excellent Temp Phase Stable
- Excellent softness



## Construction Specification

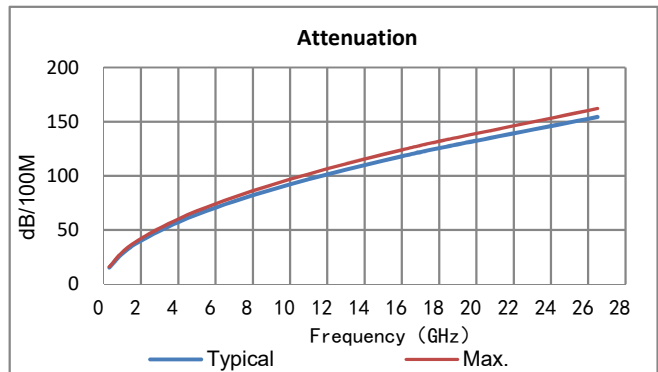
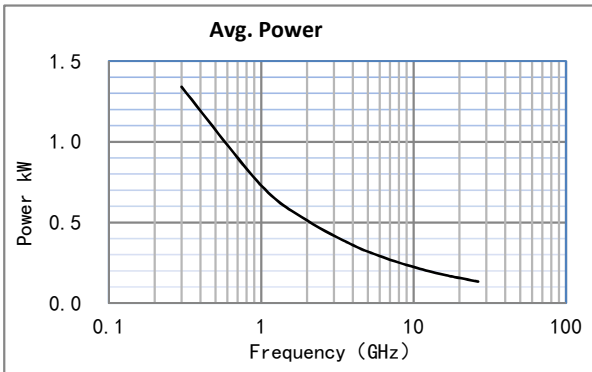
	Description	Size (mm)	Tol.	Materials
1	Center conductor	1.45	±0.05	19Strand Silver Plated Copper
2	Insulation	1.60	±0.05	FEP
3	Dielectric	3.85	±0.06	PTFE
4	Outer conductor	4.05	±0.08	Silver Plated Copper Foil
5	Inner Layer	4.21	±0.09	PTFE
6	Shielding	4.61	±0.12	Silver Plated Copper
7	Jacket	5.20	±0.15	Orange PTFE

## Mechanical&Environmental Specifications

Bend Radius:installation (mm)	20
Bend Radius:repeated (mm)	50
Weight (g/m)	45
Temp, Operating&Installation (°C)	-55 ~ 165
Temp, Storage (°C)	-65 ~ 165

## Electrical Specifications

Operation Frequency (GHz)	26.5
Impedance (Ohms)	50
Velocity of Propagation	83%
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	300	1000	2000	4000	6000	8000	10000	12000	14000	16000	18000	26500
dB/100 m	15.4	28.3	40.2	57.4	70.7	82.1	92.3	101.5	110.1	118.1	125.7	154.4
Avg.Power kW	1.340	0.729	0.512	0.359	0.291	0.251	0.223	0.203	0.187	0.175	0.164	0.134
	K1= 0.8811000					K2= 0.0004150						

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

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