

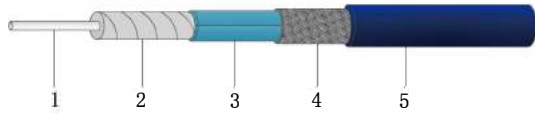


Product features

- Meets MIL-C-17
- Low cost
- Low loss
- Good amplitude stability
- Good high temperature performance
- Good fire resistance

FSF series cable combines low cost with low loss while meeting military performance requirements. This cable uses a low-density PTFE tape core dielectric and AL tape outer conductor. It is especially suited for longer cable assemblies and typical applications including interconnections, base stations, and wireless.

FSF | Specification

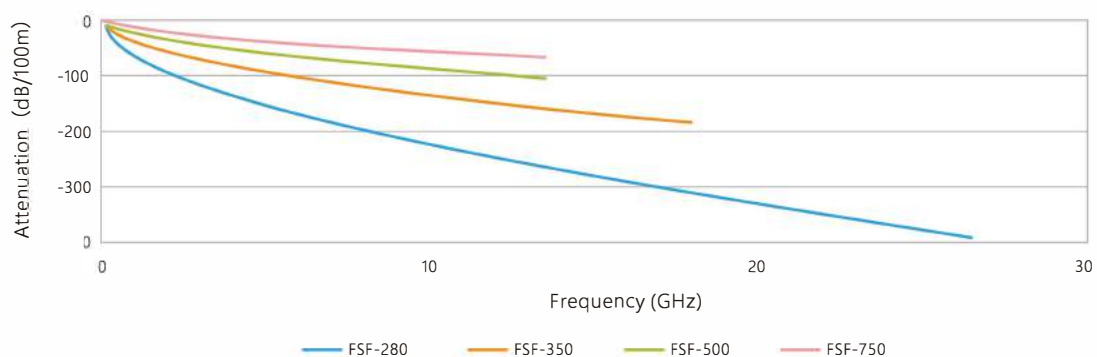


- | | | | |
|--------------------|-----------------------------|----------------|----------|
| 1 Center Conductor | SPC | 4 Outer Shield | SPC Wire |
| 2 Dielectric | PTFE | 5 Jacket | FEP |
| 3 Outer Conductor | Self-Adhesive Aluminum Foil | | |

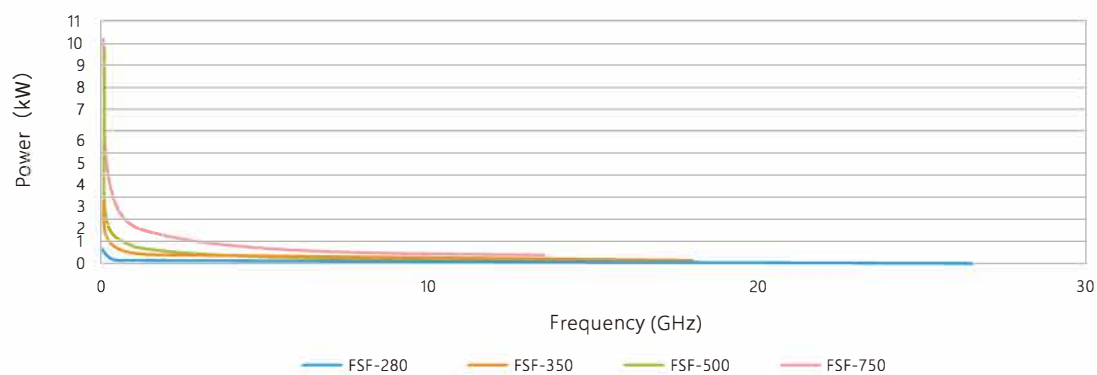
	FSF-280			FSF-350			FSF-500			FSF-750		
Physical & Mechanical Specifications												
Dimensions	mm	Inch		mm	Inch		mm	Inch		mm	Inch	
Jacket	2.60	0.102		3.50	0.138		5.20	0.205		7.80	0.307	
Bend Radius: Installation	12	0.472		14	0.551		20	0.787		35	1.378	
Bend Radius: Repeated	28	1.102		35	1.378		52	2.047		75	2.953	
Weight	18 g/m	0.012 lbs/ft		29 g/m	0.019 lbs/ft		60 g/m	0.040 lbs/ft		110 g/m	0.074 lbs/ft	
Temperature Range	-55~+125℃ (-67~+257°F)			-55~+150℃ (-67~+302°F)								
Electrical Specifications												
Operating Frequency	26.5 GHz			18 GHz			13.5 GHz			13.5 GHz		
Max Phase Stability(±°)	±8			±10			±5			±8		
Max Amplitude Stability(±dB)	±0.10			±0.10			±0.10			±0.10		
Impedance	50Ω											
Shielding Effectiveness	> 90dB											
Velocity of Propagation	76%											
Attenuation & Power Handling	Attenuation (+25℃ Ambient) & Power Handing(+40℃ Ambient; Sea Level; VSWR1:1)											
Frequency (MHZ)	dB/ m	dB/ Ft	kW	dB/ m	dB/ Ft	kW	dB/ m	dB/ Ft	kW	dB/ m	dB/ Ft	kW
1000	0.607	0.185	0.100	0.424	0.129	0.461	0.238	0.073	0.766	0.151	0.046	1.674
2000	0.874	0.267	0.070	0.606	0.185	0.323	0.343	0.105	0.532	0.218	0.067	1.155
4000	1.269	0.387	0.048	0.868	0.265	0.225	0.498	0.152	0.366	0.319	0.097	0.790
8000	1.861	0.567	0.033	1.250	0.381	0.156	0.729	0.222	0.250	0.473	0.144	0.534
10000	2.110	0.643	0.029	1.408	0.429	0.139	0.827	0.252	0.220	0.538	0.164	0.469
13500	2.504	0.763	0.024	1.654	0.504	0.118	0.981	0.299	0.186	0.642	0.196	0.393
18000	2.959	0.902	0.021	1.933	0.589	0.101						
26500	3.721	1.134	0.016									
Attenuation at Frequency	dB/m= $\frac{K1*\sqrt{FMHz}+K2*FMHz}{100}$											
K1	1.8300000			1.3110233			0.7180000			0.4480000		
K2	0.0028000			0.0009680			0.0010880			0.0008980		



Frequency & Attenuation

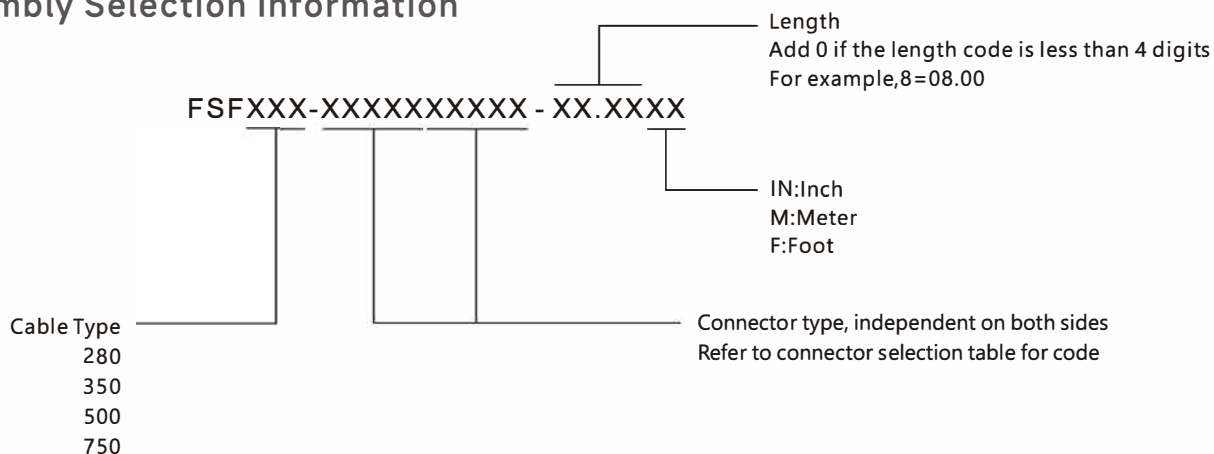


Frequency & Power





Assembly Selection Information



For example: FSF280-SMSM-01.00M

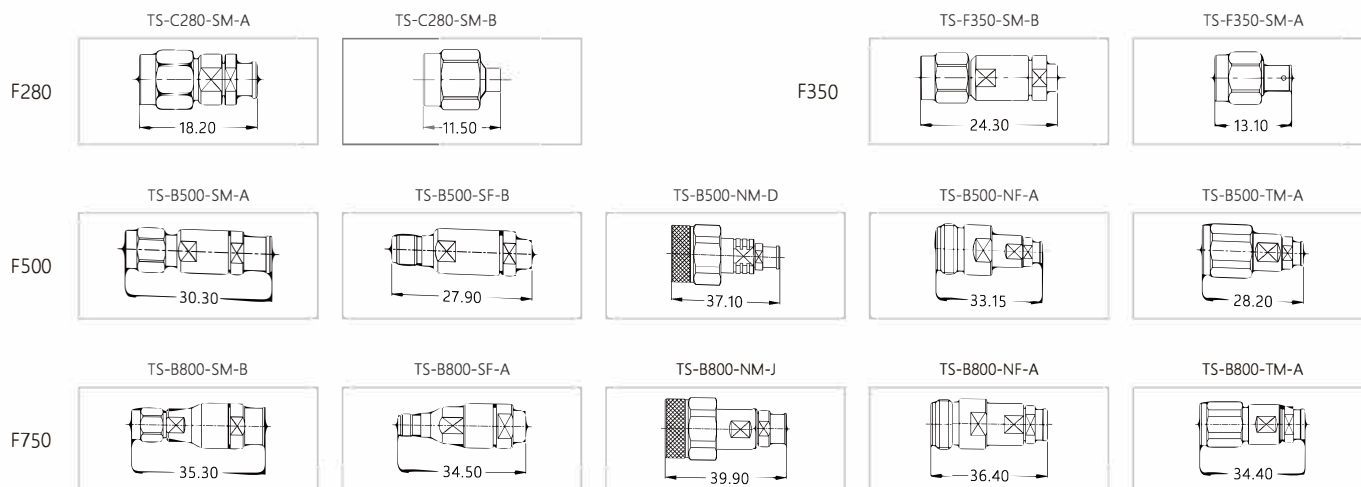
Optional Connectors

Connector Code	Connection Type	Operating Frequency (GHz)	FSF-280	FSF-350	FSF-500	FSF-750	Typical VSWR	Max VSWR
SSMPF	SSMP Female	40GHz	○				1.40	1.50
35M	3.5mm Male	26.5GHz			●		1.30	1.35
35F	3.5mm Female	26.5GHz			○		1.30	1.35
SM	SMA Male	26.5GHz	●		●		1.30	1.35
		18GHz		●		●	1.30	1.35
SMR	SMA Male Right Angle	18GHz		●	●		1.30	1.35
		14GHz	●				1.30	1.35
NM	N Male	18GHz			●	●	1.30	1.35
NMR	N Male Right Angle	12GHz			●		1.35	1.40
NF	N Female	18GHz			○		1.30	1.35
TM	TNCA Male	18GHz			○		1.30	1.35
SMPF	SMP Female	18GHz	●				1.30	1.35
SMPFR	SMP Female Right Angle	18GHz	●				1.35	1.40

Note:

● = stocked and ○ = designed but not stocked.

Connector drawing



Disclaimer: The product information provided in this manual is for reference only, and the details shall be subject to the actual situation of the product.