FSC | High Performance Semi-Flexible Alternative Flexible Coax Cable

Product features

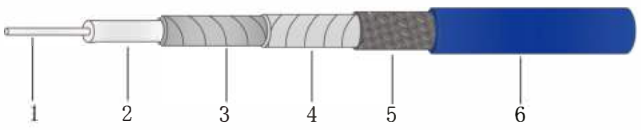
- Meets MIL-C-17
- Cost well controlled
- Flexibility
- Greater bending cycles
- Good electrical properties
- Long service life
- Replace to semi-rigid cable

FSC series cable provides an economical replacement for hand formable cable and applications requiring greater flexibility and bending cycles. This series matches the performance of Times TFlex cables and uses the same connectors with standard semi-rigid cable. Typical applications for FSC series cable are test setups, interconnection, and instrumentation. It is available for quick delivery, with customization, and low MOQ.

Similar Cable Replacement Table

	TIMES	H+S	HABIA	HARBOUR
FSC-280	TFLEX-405	MULTIFLEX86	MULTIBEND86	SS405
FSC-400	TFLEX-402	MULTIFLEX141	MULTIBEND141	SS402

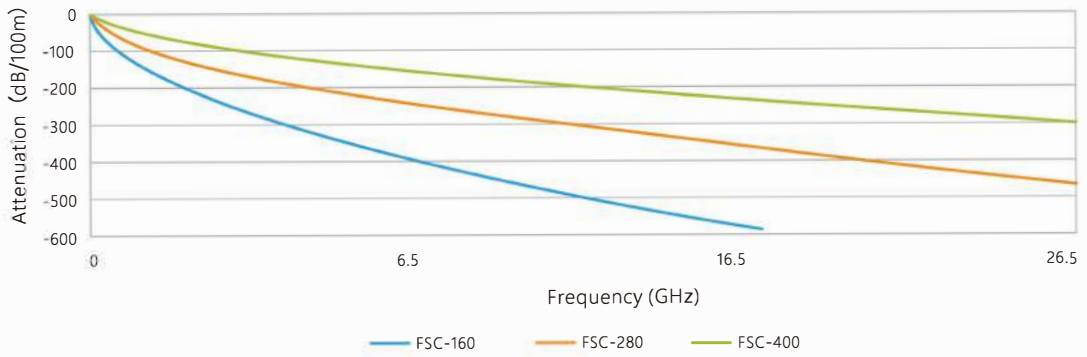
FSC | Specification



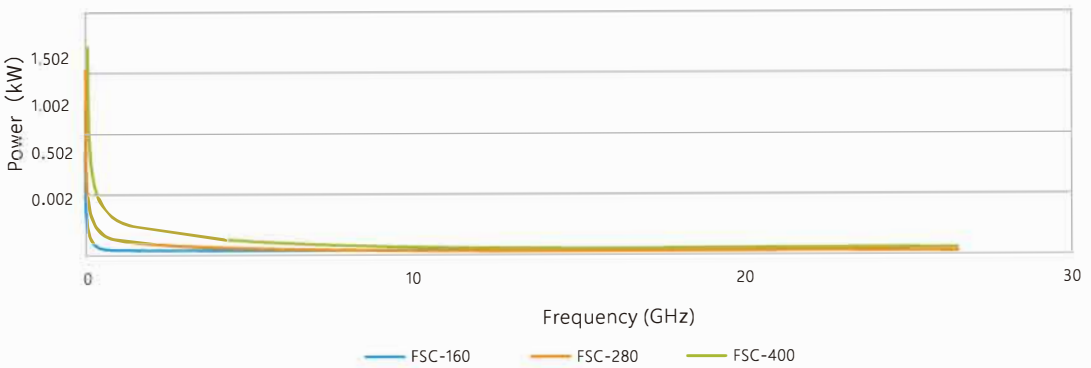
1	Center Conductor	SPC Clad Steel	4	Interlayer	PET
2	Dielectric	PTFE	5	Outer Shield	SPC Wire
3	Outer Conductor	SPC Tape	6	Jacket	FEP

	FSC-160			FSC-280			FSC-400		
Physical & Mechanical Specifications									
Dimensions	mm	Inch		mm	Inch		mm	Inch	
Jacket	1.6	0.063		2.8	0.110		4.0	0.157	
Bend Radius: Installation	6	0.236		14	0.051		20	0.787	
Bend Radius: Repeated	16	0.630		28	1.102		40	1.575	
Weight	7 g/m	0.005 lbs/ft		22 g/m	0.015 lbs/ft		49 g/m	0.033 lbs/ft	
Temperature Range	-55~+125℃ (-67~+257℉)								
Electrical Specifications									
Operating Frequency	18GHz			26.5GHz			26.5GHz		
Max Phase Stability(±°)	±8			±5			±8		
Max Amplitude Stability (±dB)	±0.25			±0.20			±0.10		
Impedance	50 Ω								
Shielding Effectiveness	> 90 dB								
Velocity of Propagation	70%								
Attenuation & Power Handling	Attenuation (+25°C Ambient) & Power Handing(+40°C Ambient; Sea Level; VSWR1:1)								
Frequency (MHZ)	dB/ m	dB/ft	kW	dB/ m	dB/ft	kW	dB/ m	dB/ft	kW
1000	1.198	0.365	0.038	0.693	0.211	0.100	0.382	0.116	0.267
2000	1.715	0.523	0.027	1.003	0.306	0.069	0.563	0.172	0.181
4000	2.467	0.752	0.019	1.465	0.447	0.047	0.842	0.257	0.121
8000	3.572	1.089	0.013	2.164	0.660	0.032	1.283	0.391	0.080
10000	4.032	1.229	0.011	2.461	0.750	0.028	1.476	0.450	0.069
18000	5.574	1.699	0.008	3.482	1.062	0.020	2.161	0.659	0.047
26500				4.408	1.344	0.016	2.805	0.855	0.036
Attenuation at Frequency	$dB/m = \frac{K1*\sqrt{FMHz}+K2*FMHz}{100}$								
K1	3.6740161			2.0669291			1.0824000		
K2	0.0035795			0.0039370			0.0039370		

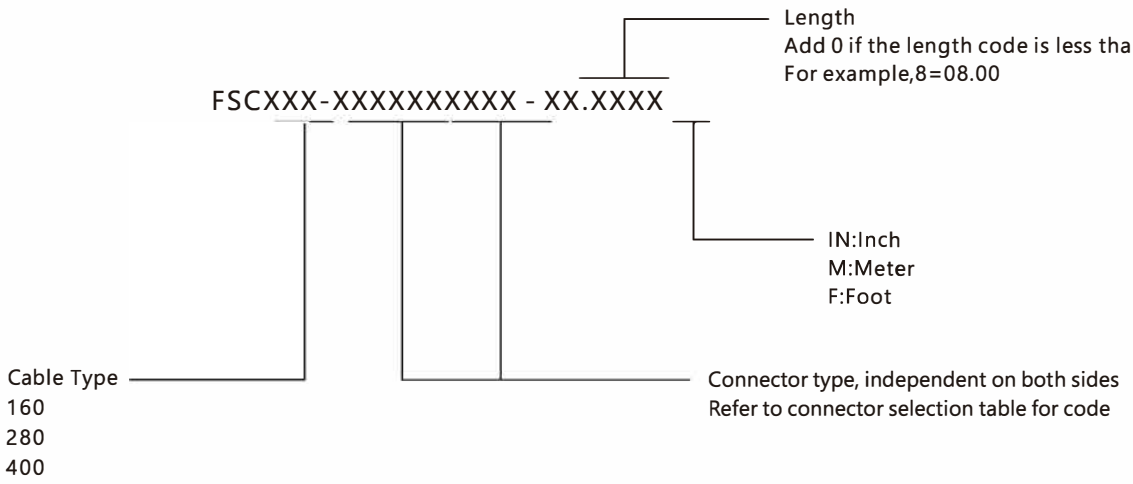
Frequency & Attenuation



Frequency & Power



Assembly Selection Information



For example: FSC280-SMPFSMPFR-01.00M

Optional Connectors

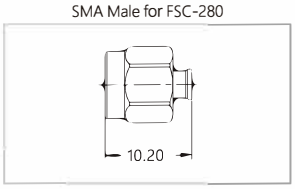
Connector Code	Connection Type	Operating Frequency (GHz)	FSC-160	FSC-280	FSC-400	Typical VSWR	Max VSWR
SM	SMA Male	26.5GHz		●	●	1.25	1.30
SMR	SMA Male Right Angle	18GHz	○		○	1.30	1.35
		14GHz		●		1.30	1.35
NM	N Male	18GHz			●	1.25	1.30
SMPF	SMP Female	18GHz		●		1.30	1.35
SMPFR	SMP Female Right Angle	18GHz		●		1.30	1.35
SSMPF	SSMP Female	40GHz		○		1.40	1.50

Note:
● = stocked and O = designed but not stocked.

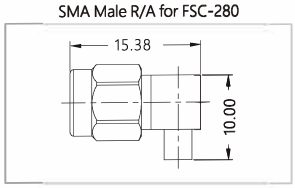
Connector drawing

FSC-280

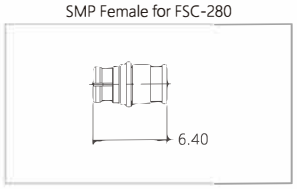
SMA Male for FSC-280



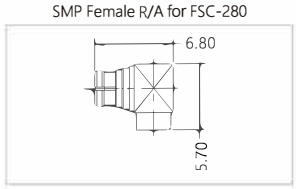
SMA Male R/A for FSC-280



SMP Female for FSC-280

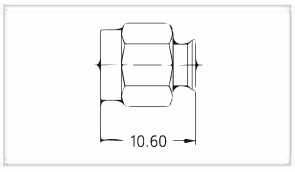


SMP Female R/A for FSC-280

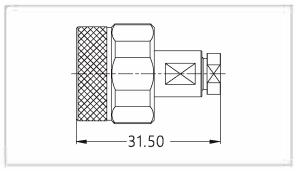


FSC-400

SMA Male for FSC-400



N Male for FSC-400



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.