

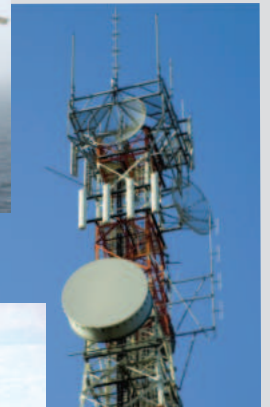
Typical Applications:

- * Interconnection between boards
- * Cabinet jumper
- * Airborne radar
- * Missile system
- * Phased array radar
- * Feed network
- * Instrumentation

FSC series RF cable chooses international leading silver plated copper spiral wrap as its outer conductor, select strong durable solid PTFE as cable dielectric, along with silver-plated copper braid, standardized cable structure size, can be easily selected standardized semi-rigid and conformable cable connector.

Features & Benefits:

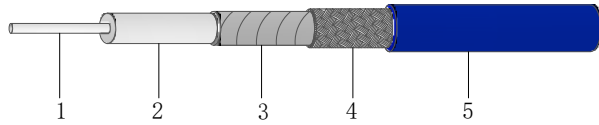
- * Good mechanical phase stability
- * Good amplitude stability
- * Flexible alternative to Semirigid Coax
- * Good trade off performance vs. price
- * The semi-rigid connectors are suitable



Replacement reference chart

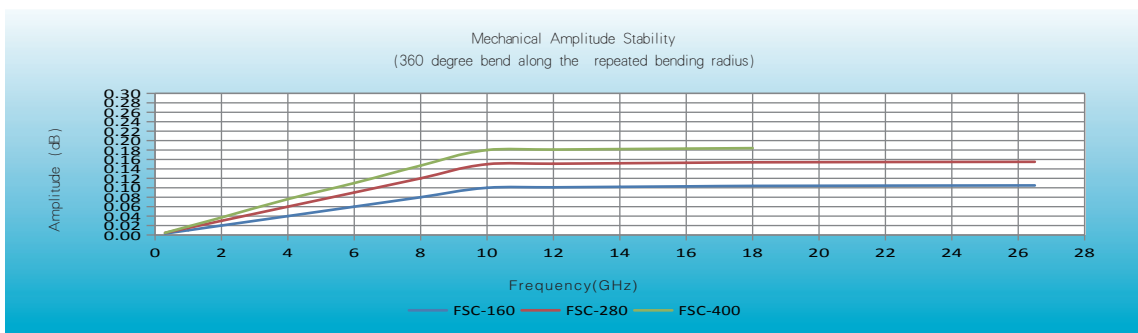
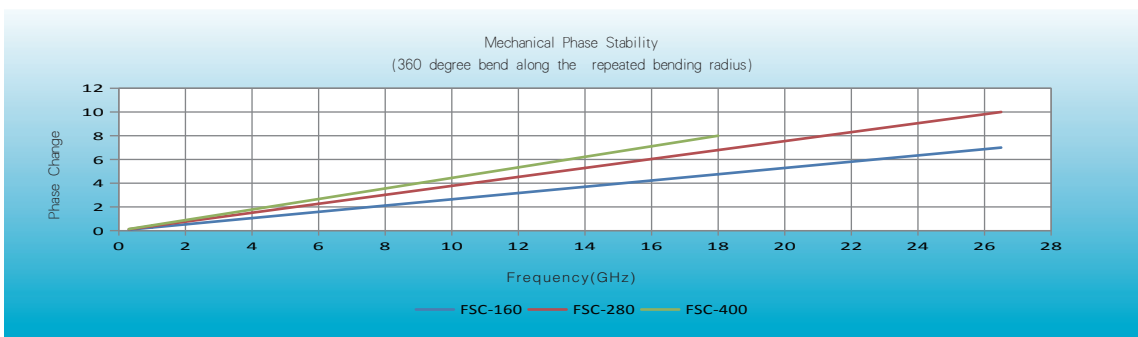
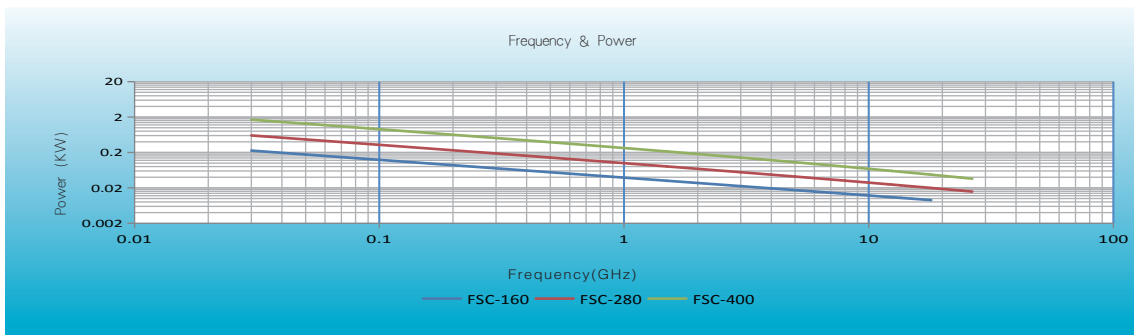
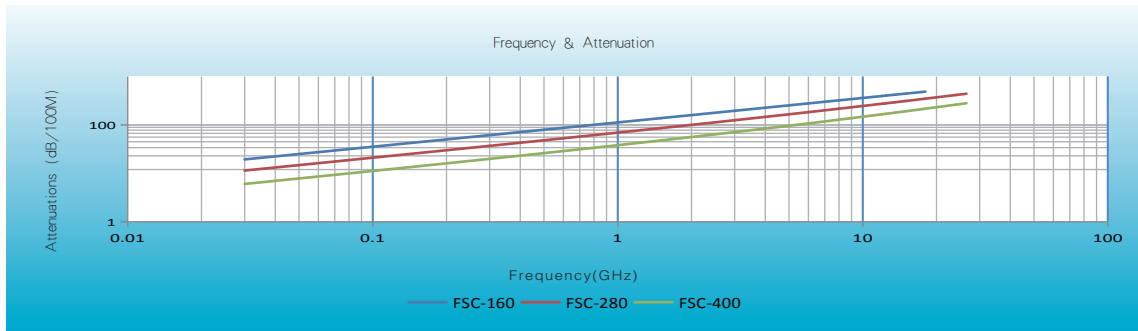
F+S	TIMES	H+S	HABIA	HARBOUR
FSC-160	TFLEX-047			
FSC-280	TFLEX-405	MULTIFLEX86	MULTIBEND86	SS405
FSC-400	TFLEX-402	MULTIFLEX141	MULTIBEND141	SS402

FSC Specification



1. Center conductor, Silver plated copper
2. Dielectric, Solid PTFE
3. Outer conductor, Silver plated copper tape wrapped
4. Outer shield, Silver-plated copper braid
5. Jacket, Blue FEP

FSC-160			FSC-280			FSC-400			
Physical & Mechanical Specifications									
Dimensions	mm	Inch	mm	Inch	mm	Inch	mm	Inch	
Center Conductor	0.29	0.011	0.51	0.020	0.91	0.036			
Dielectric	0.94	0.037	1.63	0.064	3.00	0.118			
Outer Conductor	1.14	0.045	1.79	0.070	3.20	0.126			
Outer Shield	1.34	0.053	2.16	0.085	3.55	0.140			
Jacket	1.60	0.063	2.80	0.110	4.00	0.157			
Bend Radius, minimum	6	0.236	14	0.551	20	0.787			
Bend Radius, repeated	16	0.63	28.00	1.10	46.00	1.81			
Weight	7 g/m	.0005 lbs/f	22 g/m	.015 lbs/ft	49 g/m	.033 lbs/f			
Temperature Range	T: -55° /125° C (-67° /257° F)								
Electrical Specifications									
Impedance	50 Ohms			50 Ohms			50 Ohms		
Velocity of Propagation	70%			70%			70%		
Dielectric Constant	2.04			2.04			2.04		
Shielding Effectiveness	> 90 dB			> 90 dB			> 90 dB		
Time Delay	4.76 nS/m	1.45 nS/Ft	4.76 nS/m	1.45 nS/Ft	4.76 nS/m	1.45 nS/Ft			
Capacitance	95.2 pF/m	29.0 pF/Ft	95.2 pF/m	29.0 pF/Ft	95.2 pF/m	29.0 pF/Ft			
Inductance	0.27 uH/m	0.082 uH/Ft	0.23 uH/m	0.070 uH/Ft	0.22 uH/m	0.066 uH/Ft			
Cutoff Frequency	108 GHz			62 GHz			34 GHz		
Voltage Withstand	500 DC			1000 DC			1500 DC		
Peak Power	0.63 kW			2.5 kW			5.6 kW		
Attenuation&Power Handling	Attenuation (+25° C Ambient) ; Power (+40° Ambient, Sea Level, VSWR 1:1)								
Frequency (MHz)	dB/100 m	dB/100 Ft	kW	dB/100 m	dB/100 Ft	kW	dB/100 m	dB/100 Ft	kW
30	19.41	5.92	0.226	11.44	3.49	0.605	6.05	1.84	1.687
50	25.07	7.64	0.175	14.81	4.52	0.467	7.85	2.39	1.299
100	35.47	10.81	0.124	21.06	6.42	0.329	11.22	3.42	0.909
300	61.52	18.76	0.071	36.98	11.27	0.187	19.93	6.08	0.512
500	79.50	24.24	0.055	48.19	14.69	0.144	26.17	7.98	0.390
900	106.80	32.56	0.041	65.55	19.99	0.106	36.02	10.98	0.283
1000	112.62	34.33	0.039	69.30	21.13	0.100	38.17	11.64	0.267
1500	138.10	42.10	0.032	85.96	26.21	0.081	47.83	14.58	0.213
2000	159.64	48.67	0.027	100.31	30.58	0.069	56.28	17.16	0.181
3000	195.88	59.72	0.022	125.02	38.12	0.055	71.10	21.68	0.143
4000	226.53	69.06	0.019	146.47	44.66	0.047	84.20	25.67	0.121
5000	253.61	77.32	0.017	165.84	50.56	0.042	96.22	29.34	0.106
6000	278.16	84.80	0.016	183.73	56.01	0.038	107.46	32.76	0.095
8000	321.89	98.14	0.014	216.37	65.97	0.032	128.31	39.12	0.080
10000	360.57	109.93	0.012	246.06	75.02	0.028	147.61	45.00	0.069
12000	395.66	120.63	0.011	273.66	83.43	0.025	165.81	50.55	0.062
12400	402.33	122.66	0.011	278.98	85.06	0.025	169.35	51.63	0.060
13500	420.16	128.10	0.010	293.30	89.42	0.024	178.91	54.55	0.057
15000	443.39	135.18	0.010	312.20	95.18	0.022	191.62	58.42	0.053
18000	486.73	148.39	0.009	348.17	106.15	0.020	216.09	65.88	0.047
24000	564.12	171.99	0.008	414.70	126.43	0.017	262.17	79.93	0.039
26500	593.60	180.98	0.007	440.80	134.39	0.016	280.53	85.53	0.036
Attenuation at Frequency	$dB/100\ m = K1 \cdot \sqrt{FMHz} + K2 \cdot FMHz$								
K1	3.5406664			2.0669291			1.0824000		
K2	0.0006499			0.0039370			0.0039370		



Assemblies order information

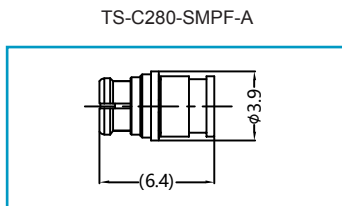
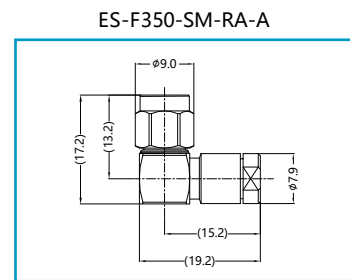
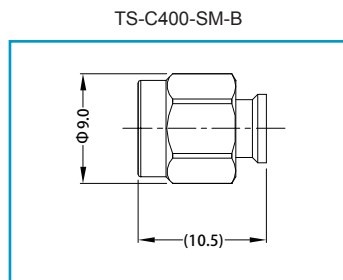
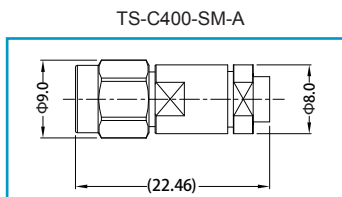
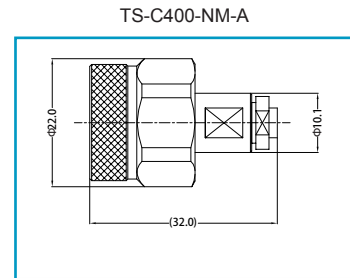
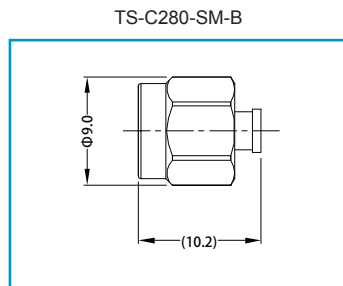
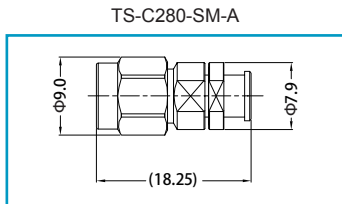
FSCXXX-XXXXXX-XX.XXX

Cable Size
 - 160
 - 280
 - 400

Connector Type, two sides independent
 SM = SMA Male
 SMPF = SMP Female
 NM = Type N Male

M: Metric system, meter
 E.g.: -01.20M = 1.2meter
 F: Imperial Standard, Ft
 E.g.: 07.50F = 7.5 Ft

Connectors Information



Type	Cable	Description	P/N	Materials	Attach Method
SMA-Male	FSC-280	TS-C280-SM-A	01-MS037	Stainless Steel	Soldering inner/outer conductor
SMA-Male	FSC-280	TS-C280-SM-B	01-MS038	Stainless Steel	Soldering inner/outer conductor
SMA-Male	FSC-400	TS-C400-SM-A	01-MS042	Stainless Steel	Soldering inner/outer conductor
SMA-Male	FSC-400	TS-C400-SM-B	01-MS043	Stainless Steel	Soldering inner/outer conductor
SMA-Male-RA	FSC-400	ES-F350-SM-RA-A	01-MR021	Stainless Steel	Spring Finger inner contact Soldering outer conductor
SMP-Female	FSC-280	TS-C280-SMPF-A	07-FS001	Beryllium copper	Soldering inner/outer conductor
N-Male	FSC-400	TS-C400-NM-A	02-MS039	Stainless Steel	Soldering inner/outer conductor

Note: Please contact FocuSimple if you have other connectors request.