StripFlex®-II (SFT)

Low Loss – High Performance Coax

- Lower Loss Microwave Interconnect
- Wireless Base Station Interconnect

Features & Benefits

- Lower Loss than SF Versions
- Superior Shielding Effectiveness
- Low Passive Intermod (-155 dBc)
- Stable Loss & VSWR vs. Flexing
- Excellent Connector Selection

StripFlex II cables provide the ultimate performance in a flexible cable. The low density PTFE tape dielectric provides the lowest dielectric loss of any practical dielectric and silver plated conductors make these the ideal choice for microwave and military interconnect systems

The high temperature dielectric and jacket enable their use in high ambient temperatures up to +200°C. They have losses slightly smaller than their low temperture TCOM counterparts as well as higher power handling capability.

The Shielding system, provided by times Microwave Systems in the mid-sixties, consists of an inner silver plated flat ribbon braid (FSC), a spirally applied and overlapped composite aluminum tape interlayer (Intl), and an overall silver plated round wire braid (SC). The flat ribbon shield affords approximately 30% lower loss and >95 dB shielding compared with the typical M17/RG round wire braided shield (40 to 60 dB).

Standard M17/RG cables are shielded with high coverage single or double round wire braids. While these shields provide 40 dB and 60 dB shielding effectiveness respectively, they are not particularly stable (loss & vswr) nor is the shielding adequate for today's sensitive wireless communications and microwave military/defense applications.

VSWR is lower since the flat ribbons can be applied over the dielectric much more uniformly than multi end round wire braids. The VSWR and attenuation variation due to aaging and flexure is substantially lower at all frequencies, and especially above 12 GHz. StripFlex II cables are also available from Times that have been sweep tested for broadband VSWR and attenuation performance. Please contact the factory with your specific requirements.

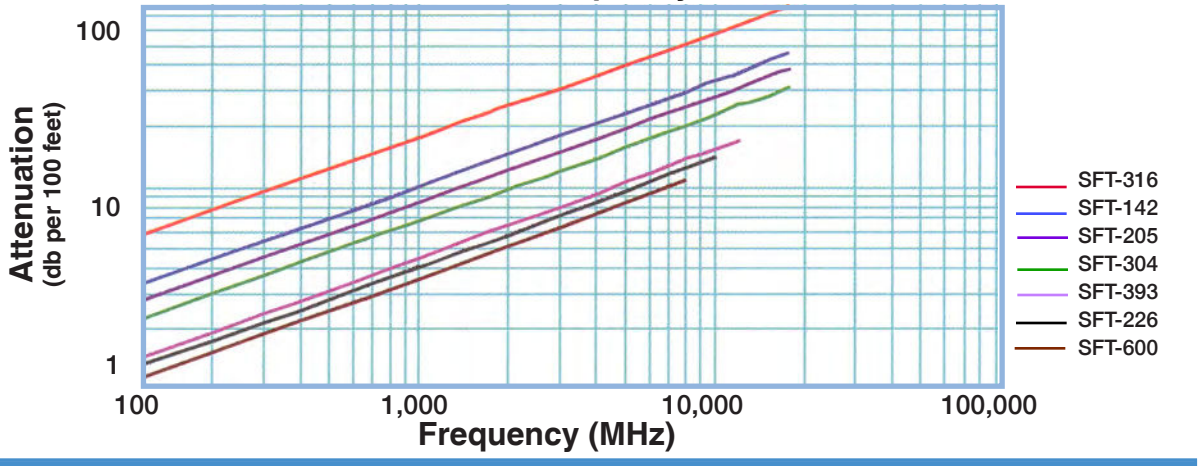
A good selection of interface connectors (crimp or clamp style) are available. SFT cables can be purchased in bulk reels or as predetermined and tested cable assemblies.

StripFlex II Low Loss High Performance Coaxial Cables

TMS Number	Conductor inches (mm)	Dielectric inches (mm)	Shields inches (mm)	Jacket inches (mm)	Weight lbs/foot (kg/m)	Impedance ohms Vp(%)	Capacitance pF/foot (pF/m)	DC Resistance ohms/1kft (/km) Cent. Cond	DC Resistance ohms/1kft (/km) Shield (s)	Oper. Voltage kvrms	Temp. Range F (C)	Min. Bend Radius in (mm)	Test Freq.
SFT-316	SC 0.0226 (0.57)	LDPTFE 0.068 (1.73)	FSC: Intl: SC 0.096 (2.44)	Blue FEP 0.120 (3.05)	0.018 (0.027)	50 +/- 1 76	26.7 (87.6)	20.5 (67.3)	5.4 (17.7)	0.5	-67 +392 (-55 +200)	0.5 (12.7)	.05-18 GHz
SFT-142	SC 0.0403 (1.02)	LDPTFE 0.121 (3.07)	FSC: Intl: SC 0.160 (4.57)	Blue FEP 0.180 (4.57)	0.036 (0.054)	50 +/- 1 76	26.7 (87.6)	6.5 (21.3)	3.3 (10.8)	1.0	-67 +392 (-55 +200)	1 (25.4)	.05-18 GHz
SFT-205	SC 0.0508 (1.29)	LDPTFE 0.154 (3.91)	FSC: Intl: SC 0.187 (4.75)	Blue FEP 0.205 (5.21)	0.042 (0.063)	50 +/-1 76	26.7 (87.6)	4.1 (13.5)(	4.8 15.6)	1.0	-67 +392 (-55 +200)	1.5 (38.1)	.05-18 GHz
SFT-304	SC 0.062 (1.57)	LDPTFE 0.185 (4.70)	FSC: Intl: SC 0.227 (5.77)	Blue FEP 0.250 (6.35)	0.067 (0.100)	50+/-1 76	26.7 (88)	2.7 (8.9)	2.1 (7.0)	2.0	-67+392 (-55+200)	2 (50.8)	.05-18 GHz
SFT-393	SC 0.096 (2.44)	LDPTFE 0.285 (7.24)	FSC: Intl: SC 0.319 (8.10)	Blue FEP 0.390 (9.91)	0.126 (0.188)	50 +/- 1 76	26.7 (87.8)	1.2 (3.8)	1.1 (3.5)	2.5	-67 +392 (-55 +200)	2 (50.8)	.05-12 GHz
SFT-226	SC 7/.048 0.131 (3.33)	LDPTFE 0.370 (9.40)	FSC: Intl: SC 0.399 (10.13)	Blue FEP 0.485 (12.32)	0.235 (0.350)	50 +/- 1 76	26.7 (87.6)	0.68 (2.2)	1.04 (3.4)	3.0	-67 +392 (-55 +200)	2 (50.8)	.05-10 GHz
SFT-600	SC 7/.0535 0.160 (4.08)	LDPTFE 0.455 (11.56)	FSC: Intl: SC 0.500 (12.70)	Blue FEP 0.555 (14.10)	0.240 (0.357)	50+/-1 76	26.7 (87.6)	0.53 (1.73)	1.32 (4.3)	3.5	-67 +392 (-55 +200)	3 (76.2)	.05-8 GHz

- Low Passive Intermod
- High Temperature
- High Power

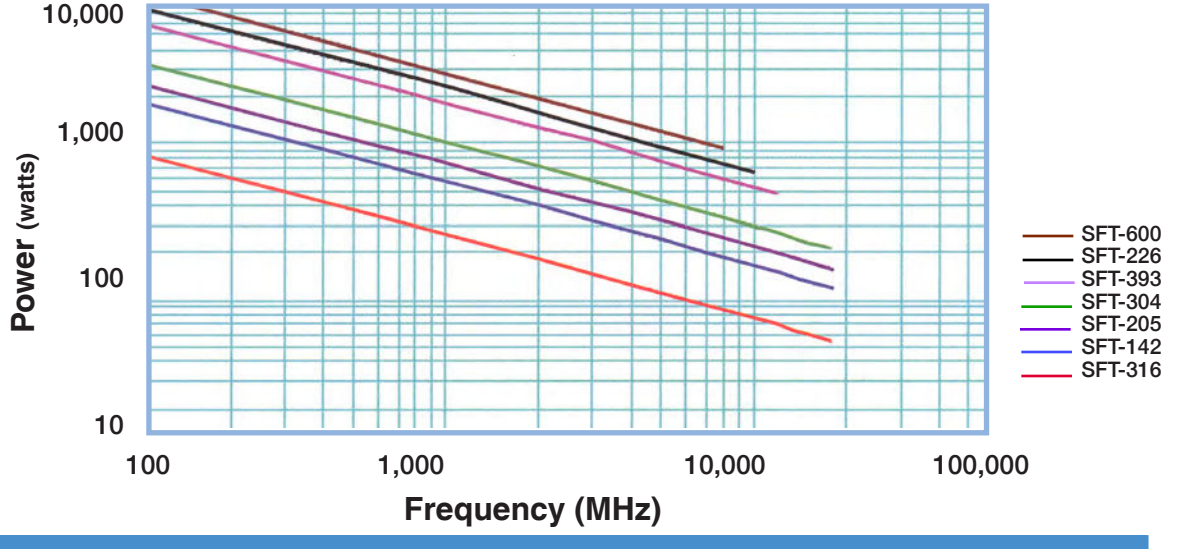
Attenuation vs. Frequency (Typical)



Frequency (MHz)	100	400	1,000	2,000	3,000	8,000	10,000	12,000	13,500	16,000	18,000	k1	k2
SFT-316	5.5	11.1	17.6	25	31	51	57	63	67	73	77	0.55168	0.00018
SFT-142	3.2	6.4	10.2	14	18	30	33	37	39	43	46	0.31533	0.00018
SFT-205	2.6	5.3	8.4	12	15	25	28	31	33	36	38	0.26098	0.00018
SFT-304	2.1	4.2	6.8	9.7	12	20	23	25	27	29	31	0.20810	0.00018
SFT-393	1.4	2.8	4.5	8.0	8	14	15	17	-	-	-	0.13593	0.00018
SFT-226	1.2	2.5	4.0	7.2	7	12	14	-	-	-	-	0.12183	0.00018
SFT-600	1.1	2.21	3.5	5.1	6	11	-	-	-	-	-	0.10137	0.00018

Attenuation at Any Frequency = [k1 x SQRT (Fmhz)] + [k2 x Fmhz]; dB per 100 feet

Power Handling vs. Frequency (Maximum)



Frequency (MHz)	100	400	1,000	2,000	3,000	8,000	10,500	12,000	13,500	16,000	18,000
SFT-600	9325	4576	2833	1956	1569	904	-	-	-	-	-
SFT-226	7494	3685	2286	1582	1271	737	-		-	-	-
SFT-393	5986	2947	1831	1269	1021	594	523	471	-	-	-
SFT-304	3309	1635	1020	710	572	336	297	268	251	227	212
SFT-205	2430	1201	750	523	422	248	220	198	186	168	157
SFT-142	1843	912	569	397	320	189	167	151	141	128	120
SFT-316	854	422	263	183	148	86	76	69	64	58	54

Watts; Sea Level; Ambient +40C; VSWR 1:1