

StripFlex®-II (SFT)

Low Loss – High Performance Coax

- Low 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 applications and other commercial 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 temperature TCOM counterparts as well as higher power handling capability.

The **Shielding system**, pioneered 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).

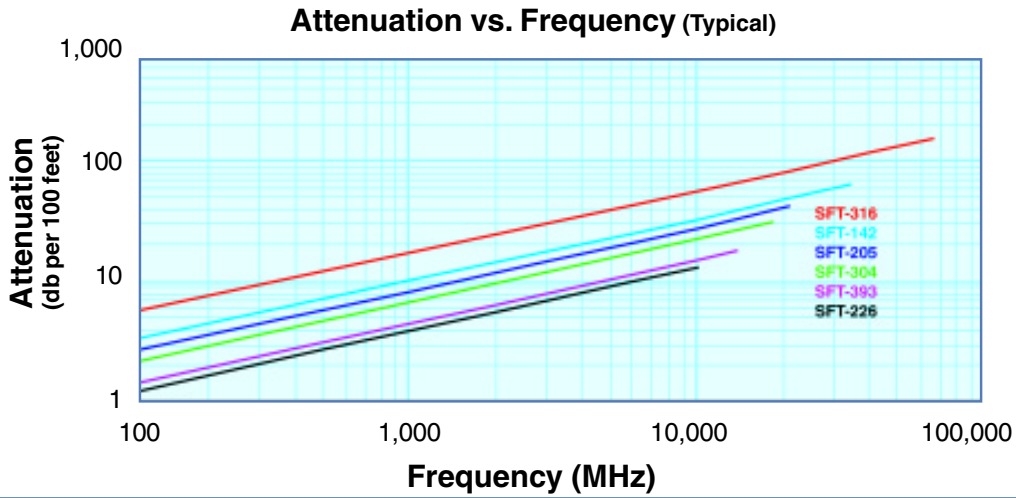
Standard M17/RG cables are shielded with high coverage single or double round wire braids. While these shields provide 40 dB and 60 dB shielding effectiveness respectively, they are not particularly stable (loss & vswr) nor is the shielding adequate for today's sensitive wireless communications and microwave 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 aging 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 standard interface connectors (crimp or clamp style) are available. SFT cables can be purchased in bulk reels or as preterminated and tested cable assemblies.

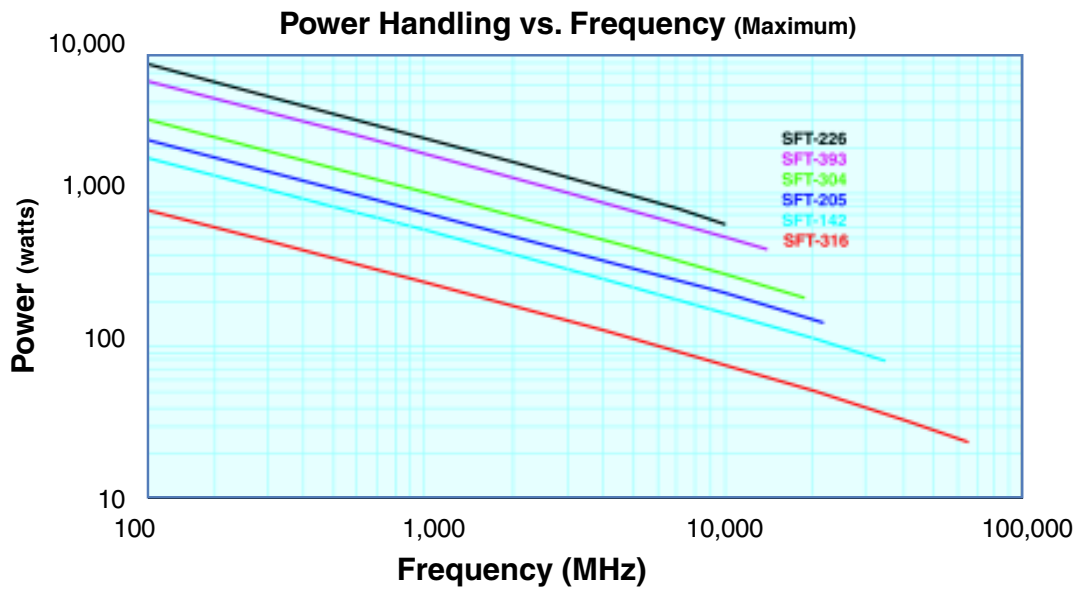
TMS Number	Conductor inches (mm)	Dielectric inches (mm)	Shields inches (mm)	Jacket inches (mm)	Weight lbs/foot (kg/m)	Impedance ohms Vp (%)	Capacitance pF/foot (pF/m)	Cutoff Freq. (GHz)	Temperature Range F (C)	Frequency Range Attenuation
SFT-316	SC 0.0226 (0.57)	LDPTFE 0.068 (1.73)	FSC:Intl:SC 0.096 (2.44)	Blue FEP 0.120 (3.05)	0.018 (0.027)	50 +/- 1 76	26.7 (87.6)	62	-67 +392 (-55 +200)	.05 to 18 GHz 77 db/100' @ 18 GHz
SFT-142	SC 0.0403 (1.02)	LDPTFE 0.121 (3.07)	FSC:Intl:SC 0.158 (4.01)	Blue FEP 0.180 (4.57)	0.036 (0.054)	50 +/- 1 76	26.7 (87.6)	35	-67 +392 (-55 +200)	.05 to 18 GHz 46 db/100' @ 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)	27	-67 +392 (-55 +200)	.05 to 18 GHz 38 db/100' @ 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 (87.6)	23	-67 +392 (-55 +200)	.05 to 18 GHz 31 db/100' @ 18 GHz
SFT-393	SC 0.096 (2.44)	LDPTFE 0.285 (7.24)	FSC:Intl:SC 0.329 (8.36)	Blue FEP 0.390 (9.91)	0.126 (0.188)	50 +/- 1 76	26.7 (87.6)	15	-67 +392 (-55 +200)	.05 to 12 GHz 17 db/100' @ 12 GHz
SFT-226	SC7/048 0.131 (3.33)	LDPTFE 0.370 (9.40)	FSC:Intl:SC 0.412 (10.46)	Blue FEP 0.485 (12.32)	0.235 (0.350)	50 +/- 1 76	26.7 (87.6)	11	-67 +392 (-55 +200)	.05 to 10 GHz 14 db/100' @ 10 GHz

- Low Passive Intermod
- High Temperature
- High Power



Frequency (MHz)	100	400	1,000	3,000	10,000	12,000	13,500	18,000	21,000	34,000	65,000	k1	k2
SFT-316	5.5	11.1	17.6	31	57	63	67	77	84	108	-	0.55168	0.00018
SFT-142	3.2	6.4	10.2	18	33	37	39	46	49	64	-	0.31533	0.00018
SFT-205	2.6	5.3	8.4	15	28	31	33	38	42	-	-	0.26098	0.00018
SFT-304	2.1	4.2	6.8	11.9	23	25	27	31	34	-	-	0.20810	0.00018
SFT-393	1.4	2.8	4.5	8.0	15	17	18	-	-	-	-	0.13593	0.00018
SFT-226	1.2	2.5	4.0	7.2	14	-	-	-	-	-	-	0.12183	0.00018

Attenuation at Any Frequency = [k1 x $\sqrt{F\text{MHz}}$] + [k2 x FMHz]; dB per 100 feet



Frequency (MHz)	100	400	1,000	3,000	10,000	12,000	13,500	18,000	21,000	34,000	65,000
SFT-226	7496	3687	2288	1273	649	-	-	-	-	-	-
SFT-393	5987	2948	1832	1022	524	472	440	-	-	-	-
SFT-304	3310	1635	1020	573	297	268	251	213	130	-	-
SFT-205	2430	1202	750	422	220	199	186	158	144	-	-
SFT-142	1843	912	569	321	167	151	141	120	110	82	-
SFT-316	854	422	263	148	76	69	64	54	50	37	24

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