

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 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.

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)	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 (-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 (-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 (-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 (-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 (-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 (-55 +200)	2 (50.8)	.05-10 GHz
SFT-600	SC 19x7 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)	0.66 (2.2)	1.32 (4.3)	3.5 (-55 +200)	3 (76.2)	.05-8 GHz