StripFlex®-II (SFT)

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

SFT cables provides 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 temperature up to +200C. They have losses slightly smaller than their low temperature TCOM counterparts as well as high power handling capability.

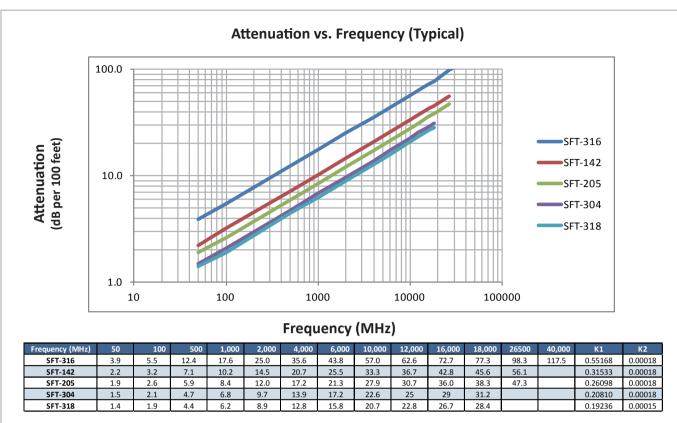
The Shielding systems, pioneered by Times Microwave Systems in the mid-sixties, consists of an inner silver plated ribbon braid (FSC), a spirally applied and overlapped composite aluminum tape interlayer (Intl), and an overall silver plated round wire braid (SC). The flat ribbon shield affords approximately 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.

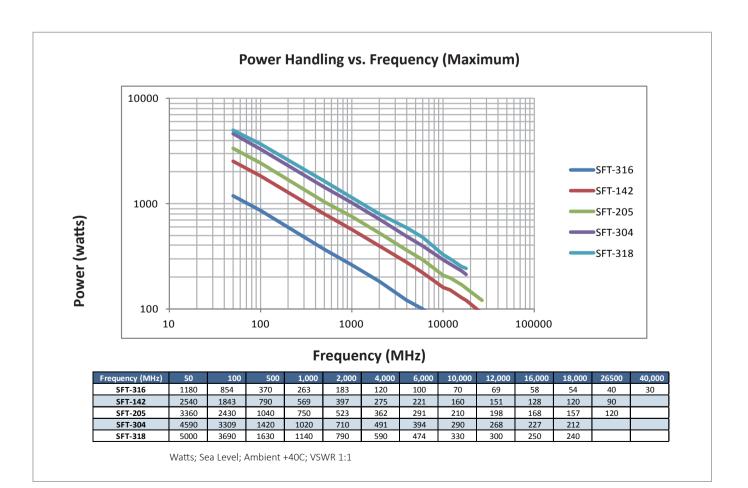
VSWR is lower since the flat ribbon can be applied over the dielectric much more uniformly than multi-end round wire braids. The VSWR and attenuation variation due to aging and flexure is substantially lower at all frequencies, and especially above 12 GHz. StripFlex-II cables are also available from 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 cable can be purchased in bulk reels or as preterminated and tested cable assemblies.

| Cable | AA number | Conductor | Dielectric | inner Shield | Interlayer | Outer Shield | Jacket | Weight | Impedance | Capacitance | Temp. | Min.Bend | Cut-off |
|---------|-----------|-----------|------------|--------------|------------|--------------|----------|---------|-----------|-------------|------------|----------|-----------|
| | MI Number | in | in | in | | in | | lb/ft | ohms | pF/ft | Range | Radius | Frequency |
| | | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (kg/m) | Vp (%) | (pF/m) | F(C) | in (mm) | (GHz) |
| SFT-316 | AA-8649 | SC | LDPTFE | FSC | Al/Kapton | SC | Blue FEP | 0.018 | 50+/-1 | 26.7 | -67 +392 | 0.50 | 62.95 |
| | 51743 | 0.023 | 0.068 | 0.078 | 0.083 | 0.096 | 0.120 | | | | | | |
| | | (0.57) | (1.73) | (1.98) | (1.85) | (2.44) | (3.05) | (0.027) | 76% | (87.6) | (-55 +200) | (12.7) | |
| SFT-142 | AA-8650 | SC | LDPTFE | FSC | Al/Kapton | SC | Blue FEP | 0.036 | 50+/-1 | 26.7 | -67 +392 | 0.75 | 35.40 |
| | 51742 | 0.040 | 0.121 | 0.131 | 0.136 | 0.158 | 0.180 | | | | | | |
| | | (1.02) | (3.07) | (3.33) | (3.48) | 4.01 | (4.57) | (0.054) | 76% | (87.6) | (-55 +200) | (19.1) | |
| SFT-205 | AA-8651 | SC | LDPTFE | FSC | Al/Kapton | SC | Blue FEP | 0.042 | 50+/-1 | 26.7 | -67 +392 | 1.00 | 27.84 |
| | 51802 | 0.051 | 0.154 | 0.164 | 0.169 | 0.187 | 0.205 | | | | | | |
| | | (1.29) | (3.91) | (4.17) | (4.29) | (4.75) | (5.21) | (0.063) | 76% | (87.6) | (-55 +200) | (25.4) | |
| SFT-304 | AA-8652 | SC | LDPTFE | FSC | Al/Kapton | SC | Blue FEP | 0.067 | 50+/-1 | 26.7 | -67 +392 | 1.25 | 23.09 |
| | 51807 | 0.062 | 0.185 | 0.195 | 0.200 | 0.227 | 0.250 | | | | | | |
| | | (1.57) | (4.70) | (4.95) | (5.08) | (5.77) | (6.35) | (0.100) | 76% | (87.6) | (-55 +200) | (31.8) | |
| SFT-318 | AA-9702 | SC | LDPTFE | FSC | Al/Kapton | SC | Blue FEP | 0.095 | 50+/-1 | 26.7 | -67 +392 | 1.75 | 19.33 |
| | 51972 | 0.074 | 0.221 | 0.231 | 0.240 | 0.263 | 0.291 | | | | | | |
| | | (1.88) | (5.61) | (5.87) | (6.10) | (6.68) | (7.39) | (0.140) | 76% | (87.6) | (-55 +200) | (44.45) | |



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



Connectors & Cable Assemblies

Times Microwave Systems designs and manufactures high performance RF and Microwave coaxial cables, connectors and cable assemblies for military, aerospace, telecommunications, compliance testing and industrial applications. We are an engineering organization committed to innovation and development of new products for demanding applications, but also a fully integrated manufacturer of cable, connectors and assemblies with cost effective production facilities and the resources of Amphenol behind us.

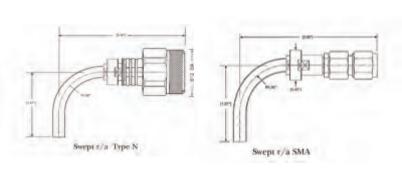
We offer a full range of connectors with all standard interfaces designed to match our microwave and provide optimum performance. Our integrated design and production expertise positions to provide custom cable assemblies to meet your requirements including phase matching, special testing, custom connectors, improved strain relief, armoring, special markings, traceability, color coding, kitting and other special requirements.

Here is the summary of the connectors we have developed for microwave cables:

| Cable Connector | HF-160 | HF-190 | HF-290 | SFT-316 | SFT-142 | SFT-205 | SFT-304 | TFlex-405 | TFlex-402 |
|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| SMA Male Straight | CF | 3190-2722 | 3190-2604 | 3190-2738 | 3190-2793 | 3190-2289 | 3190-2288 | 3190-2711 | 3190-6248 |
| SMA Male Right Angle | CF | 3190-6042 | CF | 3190-2952 | CF | 3190-2733 | CF | 3190-2901 | 3190-2902 |
| SMA Male Swept | CF | 3190-6105 | CF | CF | CF | 3190-6089 | CF | CF | CF |
| N Male Straight | CF | 3190-2710 | 3190-2605 | 3190-2996 | 3190-2794 | 3190-2291 | 3190-2290 | CF | 3190-2921 |
| N Male Right Angle | CF | CF | 3190-6117 | CF | CF | CF | CF | CF | CF |
| N Male Swept | CF | 3190-6106 | CF | CF | CF | 3190-6090 | CF | CF | CF |
| TNC Male Straight | CF | 3190-2723 | 3190-2606 | 3190-2994 | CF | 3190-2676 | 3190-2584 | CF | CF |
| TNC Male Swept | CF | 3190-6107 | CF | CF | CF | 3190-6091 | CF | CF | CF |
| 3.5MM Male Straight | CF | 3190-6044 | CF | CF | CF | 3190-2925 | CF | CF | CF |
| 3.5MM Male Swept | CF | 3190-6108 | CF | CF | CF | 3190-6156 | CF | CF | CF |
| 2.92MM Male Straight | 3190-6269 | CF | CF | CF | CF | CF | CF | 3190-6225 | 3190-2842 |
| 2.92MM Male Swept | 3190-6308 | CF |
| Straighteel Armor Option | MI-10642 | MI-10630 | MI-10635 | CF | CF | MI-10630 | CF | CF | CF |

*CF: Consulting Factory

Swept option: Swept replaceable screw tube is available to satisfy the right angle requirement with an effective cost, while the performance could be maintained the same as the straight connectors.



* Dimension is just for reference, detailed information please contact factory.

Armored option: Steel armor is available as an option to provide the cable assembly the additional protection for rough field application.



