

SFT™-PUR

High Performance
Microwave Coaxial Cable,
Connectors and Assemblies

SFT™ -Strip Flex Taped

- *Low Loss*
- *Flexible*
- *Weather Resistant*
- *Broad Temperature Range*
- *High Power Handling*



SFT-PUR cables are cost effective, high performance microwave cables with a tough and flexible all weather jacket. Compared to an FEP jacket, these cables offer better flexibility and durability in outdoor applications, with the tradeoff of a maximum ambient temperature of 85°C.

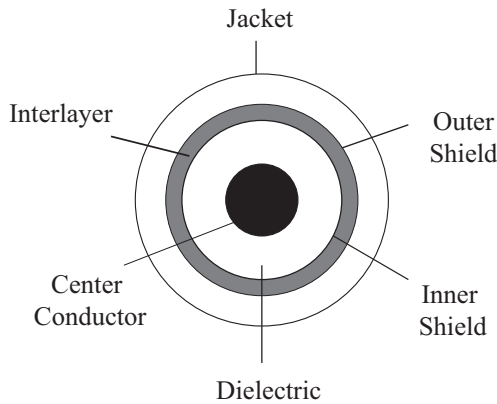
SFT-PUR cables have a silver plated copper flat braid as the first shield layer to provide low loss and long flex life. The helically wrapped interlayer provides additional shielding and stability in bending. The outer round wire braid provides mechanical strength and high connector retention.

SFT-PUR cables are an excellent choice for applications requiring a high performance RF/microwave cable with excellent flex life and the potential to be used in an outdoor environment. Examples include radar feeders, cellular base station interconnects, semi-conductor processing equipment and field deployable communications. It is also an excellent low loss, phase stable test cables.

Features & Benefits:

- Much lower loss than solid dielectric cables
- Superior shielding effectiveness > 100 dB
- Stable loss, VSWR and phase with flexing

SFT-PUR Specifications:



Cable Construction:

Center Conductor: Silver Plated Copper
 Dielectric: Tape Wrapped PTFE
 Inner Shield: Silver Plated Copper Strip
 Interlayer: Metalized Composite Tapes
 Outer Shield: 36 Ga Tin Plated Copper
 Jacket: Blue Polyurethane

Connectors:

Connectors are available with a wide range of interfaces, including SMA, N, etc. Please consult Times Microwave Systems with your requirements.

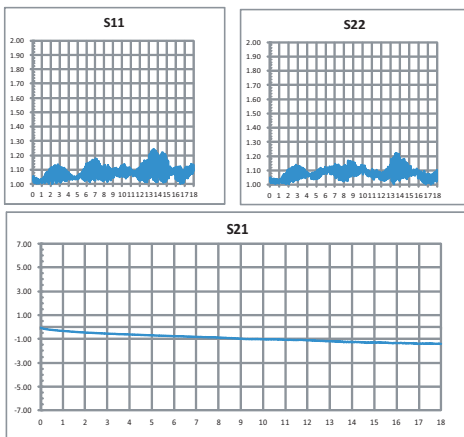


Cable Assembly:

Times Microwave Systems provides SFT-PUR as assemblies to meet a broad range of application requirements.

Below are the typical curves for SFT-PUR assembly for reference:

SFT-205-PUR/1m/SM/SM



	SFT-142-PUR		SFT-205-PUR		SFT-304-PUR	
Physical & Mechanical Specifications						
Dimensions	in	(mm)	in	(mm)	in	(mm)
Inner Conductor	0.0403	1.024	0.0508	1.290	0.062	1.575
Dielectric	0.121	3.073	0.154	3.912	0.186	4.724
Inner Shield	0.131	3.327	0.164	4.166	0.196	4.978
Interlayer	0.136	3.454	0.169	4.293	0.201	5.105
Outer Shield	0.159	4.039	0.187	4.750	0.223	5.664
Jacket	0.202	5.131	0.238	6.045	0.294	7.468
Weight lbs./ft	0.036 Lbs/Ft		0.042 Lbs/Ft		0.067 Lbs/Ft	
Bend Radius: minimum	0.800	25.40	1.000	25.40	1.250	31.75
Temperature Range	-55°C to +85°C					
Electrical Specifications						
Impedance	50 ohms					
Velocity of Propagation	76%					
Shielding Effectiveness	-100 dB					
Capacitance	26.8 pf/ft		26.7 pf/ft		26.4 pf/ft	
Maximum Frequency	36.0 GHz		36.0 GHz		26.5 GHz	
Attenuation: dB/100ft (100m) (+25°C Ambient)						
100 MHz	3.2	10.6	2.6	8.6	2.1	6.9
400 MHz	6.5	21.3	5.3	17.4	4.3	14.1
1000 MHz	10.3	33.8	8.4	27.6	6.8	22.3
3000 MHz	18.1	59.4	14.8	48.5	12.0	39.4
8000 MHz	29.9	98.1	24.8	81.3	20.0	65.6
10000 MHz	33.6	110.2	27.9	91.5	22.3	73.0
12000 MHz	37.0	121.4	30.8	101.0	24.8	81.4
13500 MHz	39.3	128.9	32.8	107.6	26.5	86.9
18000 MHz	45.7	149.9	38.3	125.6	30.9	101.3
K1	0.322200		0.260980		0.210500	
K2	0.000140		0.000180		0.000146	
Power Handling (KW) (+25°C Ambient; Sea Level; VSWR 1:1)						
100 MHz	0.77		1.10		1.50	
400 MHz	0.38		0.52		0.75	
1000 MHz	0.24		0.33		0.47	
3000 MHz	0.14		0.18		0.26	
8000 MHz	0.08		0.11		0.16	
10000 MHz	0.07		0.10		0.14	
12000 MHz	0.07		0.09		0.13	
13500 MHz	0.06		0.08		0.12	
18000 MHz	0.05		0.07		0.10	



World Headquarters: 358 Hall Avenue, Wallingford, CT 06492 • Tel: 203-949-8400, 1-800-867-2629 Fax: 203-949-8423

International Sales: 4 School Brae, Dysart, Kirkcaldy, Fife, Scotland KY1 2XB UK • Tel: +44(0)1592655428

China: Bld 4, No.318 Yuanshan Road, Shanghai, China 201108 • Tel: 86-21-51761234 Fax: 86-21-64424098

www.timesmicrowave.com