SilverLine®-TT (TempTrack)

ISO 9001 Certified

Coaxial Test Cables For:

- RF Testing From 0° C to $+30^{\circ}$ C
- Phase Critical RF/Microwave Measurement
- Research and Development



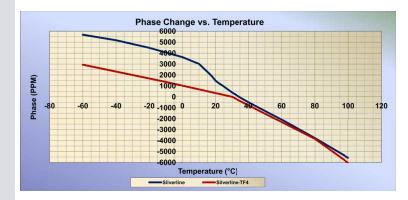


Time's *Silverline*®Product Guarantee

Times will repair or replace your SilverLine test cable at its option if the connector attachment fails within four months of shipment. This guarantee excludes cable or connector interface damage from misuse or abuse.



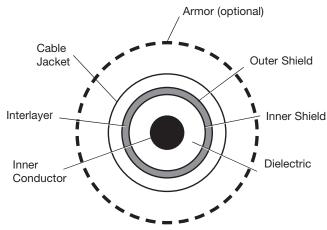
SilverLine[®]-TT features solid TF-4TM dielectric. This proprietary dielectric exhibits smaller and more linear phase change at normal ambient temperatures of 0° C to + 30° C, when compared to solid PTFE. Although somewhat improved phase performance can be achieved using foam, taped or spline dielectrics, ruggedness is sacrificed and the phase performance achieved is not as good as the SilverLine[®]-TT. The graph below compares solid PTFE to solid TF-4TM.



Features & Benefits

- Less and Linear Phase Change From 0° C to + 30° C
- Stainless Steel Connectors
- Ruggedized Cable/Connector Interface
- ROHS Compliant

SilverLine®-TT_



Cable Construction

Inner Conductor: Solid silver plated copper Dielectric: Solid TF- 4^{TM}

Shield: Silver-plated copper flat ribbon braid aluminum-polyimide tape interlayer 36 GA silver-plated copper round braid (90%k)

Jacket: Clear FEP

Armor. Optional

Steel Style: 100% coverage, square locked, galvanized steel hose, high angle steel braid and high temp TPR jacket

Connectors

- Stainless steel construction

- SMA and Type N OneTurnTM options

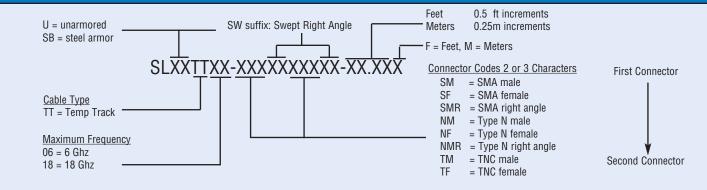
* SMA and Type N mating life assumes the use of a calibrated torque wrench, interfaces are clean and within mil spec limits.

**See SilverLine-VNA data sheet for flex test conditions. A brand new cable can have a break-in period of several hundred flexes.

Specifications subject to change without notice.

	Mechanical Specifications				
	Dimensions			in	mm
	Outside Diameter			0.195	4.95
	Armor (optional)			0.450	11.50
	Minimum Bend Radius (unarmored)			1	25
	Connector Retention		>175 lbs (unarmored) 300 lbs (armored)		
	Crush Resistance (armored)		1500 lbs per linear inch		
	Mating Life Cycle		>5000*		
	Temperature Range (unarmored limited by strain relief)		Unarmored: - 67° / + 221° F (- 55° / +105° C)		
	Electrical Specifications				
	VSWR			6 Ghz	18 Ghz
	Max	SMA, Type N, TNC, Swept	r/a	1.25:1	1.30:1
	SMA r/a, Type N, r/a			1.30:1	1.35:1
	Impedance			50 Ohms	
	Velocity of Propagation			70%	
	Shielding Effectiveness			>100 dB	
	Capacitance		29.0 pf/ft (95.1 pf/m)		
	Phase Stability ** (50,000 cycles)		+/-2° through 18 GHz		
	Phase change from 0° to + 30° (C	35 ppm/deg C	+/-10 ppm/deg C
	Attenuation, max @77°F (25°C)				
	Frequency (Ghz)			dB/100 ft	(dB/100 m)
	1			12	(40)
	2			18	(59)
	6			35	(115)
	12			53	(174)
	18			69	(226)
	Cable Power Handling @77°F (25°C) sea level, watts, (max)				
	Frequency Ghz				
	1		444		
	2			304	
	6		163		
	12			108 86	
	18			(50

Ordering Information



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