SilverLine®-TT (TempTrack)

Coaxial Test Cables For:

- RF Testing From 0°C to +30°C
- Phase Critical RF/Microwave Measurement
- Research and Development



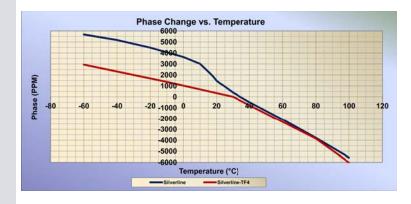


Times will repair or replace your SilverLine test cable at its option if the connector attachment fails within four months of shipment. This guarantee excludes cable or connector interface damage from misuse or abuse.





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.

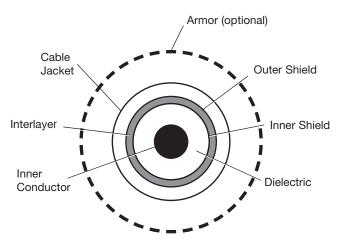


Features & Benefits

- 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-4TM

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

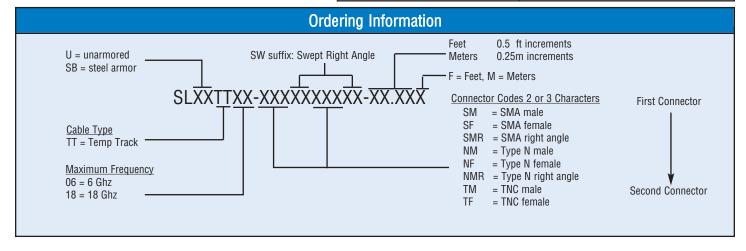
Connectors

- 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.

A brand new cable can have a break-in period of several hundred flexes.

Specifications subject to change without notice.

	Mechanical Specifications					
Ì	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*			
	Increased Temerature: *(serial# 32,000 & above)		unarmored or armored: -67°/+257°F 55°/+125°C			
	Electrical Specifications					
	VSWR		6 Ghz 18 Ghz			
	Max	SMA, Type N, TNC, Swept	N, TNC, Swept r/a		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			
ı	Capacitance		29.0 pf/ft (95.1 pf/m)			
	Phase Stability ** (50,000 cycles)		+/-2° through 18 GHz			
	Phase change from 0° to + 30° ()	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		5°C)	sea level, watts,	(max)	
	Frequency Ghz					
	1		444			
	2		304			
	6		163			
	12			108		
	18			86		



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