

SilverLine[®]-TT (TempTrack)

ISO 9001 Certified

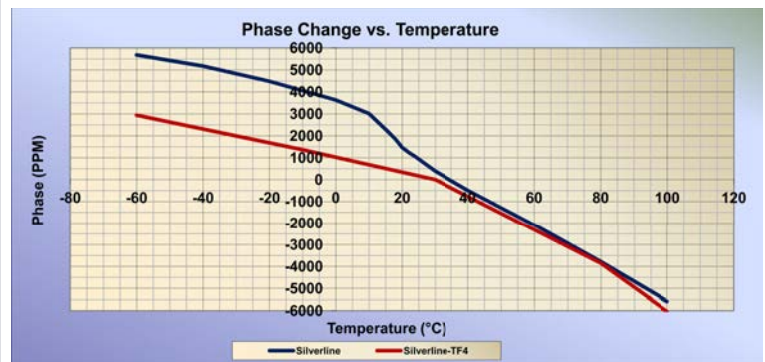
Coaxial Test Cables For:

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

Now +125°C
Operating Temperature
on Both Armored and
Unarmored Style!*



SilverLine[®]-TT features solid TF-4[™] 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-4[™].



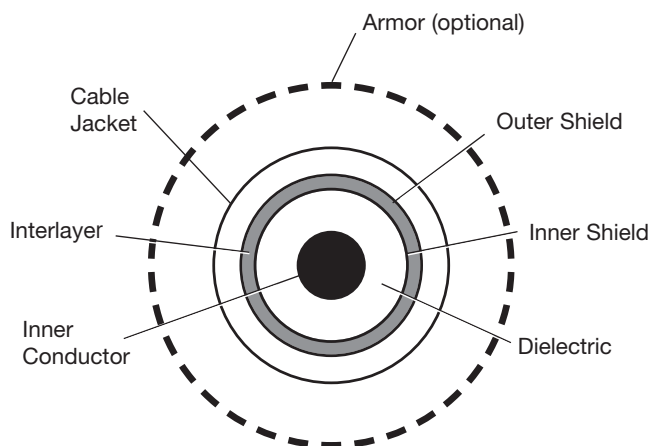
Time's Silverline[®] Product Guarantee

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.

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™

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 OneTurn™ 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.

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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*	
Increased Temperature: *(serial# 32,000 & above)	unarmored or armored: -67°/+257°F 55°/+125°C	

Electrical Specifications			
VSWR Max		6 Ghz	18 Ghz
	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
18	86

Ordering Information

U = unarmored
SB = steel armor

Cable Type
TT = Temp Track

Maximum Frequency
06 = 6 Ghz
18 = 18 Ghz

SW suffix: Swept Right Angle

SLXXTTXX-XXXXXXXXXX-XX.XXX

Feet 0.5 ft increments
Meters 0.25m increments

F = Feet, M = Meters

Connector Codes 2 or 3 Characters

SM = SMA male
SF = SMA female
SMR = SMA right angle
NM = Type N male
NF = Type N female
NMR = Type N right angle
TM = TNC male
TF = TNC female

First Connector

↓

Second Connector

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