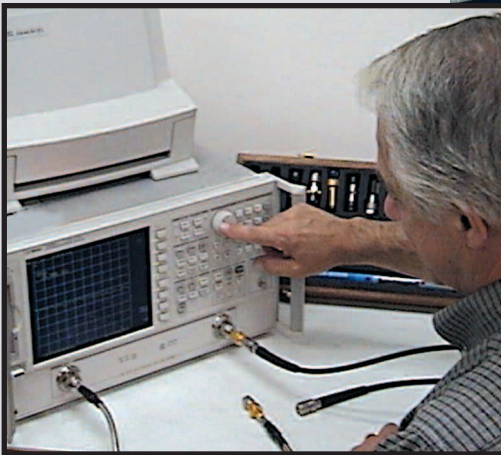


SilverLine[®] -SF (Super Flex) & SilverLine[®] -LL (Low Loss)

ISO 9001 Certified

Coaxial Test Cables For:

- High volume production test stations
- Research and development labs
- Replacement for OEM test cables



SilverLine[®]-SF (Super Flex)

SilverLine[®]-SF is approximately 40% more flexible than traditional SilverLine[®]. This is accomplished by replacing the steel center conductor with copper and the FEP outer jacket with polyurethane. SilverLine[®]-SF retains its bent shape. That is, the cable has memory.

SilverLine[®]-LL (Low Loss)

SilverLine[®]-LL is a low loss version of traditional SilverLine. Along with the SF changes above the solid core is replaced with tape wrapped PTFE. Flexibility is similarly increased, memory is introduced and the attenuation is reduced by approximately 30%.

Both SilverLine[®]-SF and SilverLine[®]-LL use the robust, proven connector attachment and strain relief systems that have become so popular and successful with original SilverLine[®].

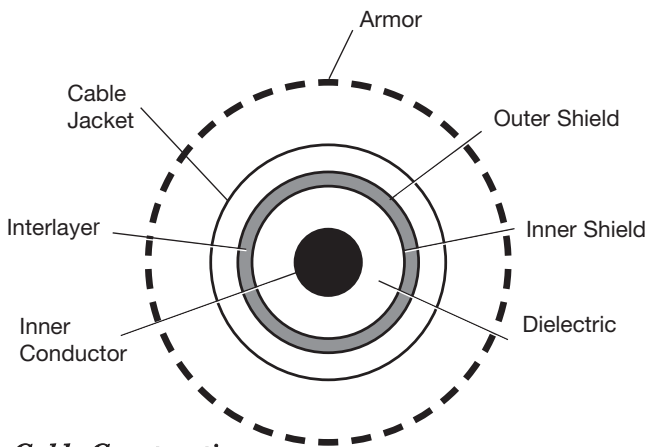
Time's Silverline[®] Product Guarantee

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

- 40% More Flexible
- 30% Lower Loss (SilverLine[®]-LL Only)
- Identical Proven Attachment Method
- ROHS Compliant

SilverLine® -SF & LL



Cable Construction

Inner Conductor: Solid silver plated copper

Dielectric: SilverLine-SF® (Super Flex); solid PTFE
SilverLine-LL® (Low Loss); expanded tape wrapped PTFE

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

Jacket: Clear polyurethane

Armor: Optional

PVC Style: Steel reinforced, thick wall high flex life clear PVC

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

Connectors: Captive contact, stainless steel construction

*SMA and Type N only. 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	1	25
Connector Retention	>125 lbs	
Crush Resistance (armored)	1200 lbs per linear inch	
Mating Life Cycle	>5000*	
Temperature Range	-67° / +185°F	-55° / +85°C

Electrical Specifications

VSWR	Max	4 Ghz	6 Ghz	18 Ghz
		BNC	1.2:1	
		QMA, SMA, Type N, TNC, Swept r/a	1.25:1	1.30:1
		SMA r/a, N r/a, 7mm	1.25:1	1.35:1
Impedance	50 Ohms			
Velocity of Propagation	Super Flex: 70% Low Loss: 76%			
Shielding Effectiveness	>100 dB			
Capacitance	SF: 29.4 pf (96.4 pf/m) LL: 26.7 pf/ft (87.6 pf/m)			
Phase Stability (25,000 cycles)**	+/-5° through 18 GHz			
Attenuation, max @77°F (25°C)	Super Flex		Low Loss	
Frequency (Ghz)	dB/100 ft (dB/100 m)		dB/100 ft (dB/100 m)	
1	12	(40)	10	(33)
2	18	(59)	15	(49)
6	34	(112)	26	(85)
12	52	(174)	37	(121)
18	68	(224)	46	(150)
Cable Power Handling @77°F (25°C) sea level, watts, (max)				
Frequency Ghz	Super Flex		Low Loss	
1	539		340	
2	363		240	
6	180		130	
12	117		90	
18	88		70	

Ordering Information

U = unarmored
A = PVC armor
S = Steel armor

SW suffix: Swept Right Angle

Feet 0.5 ft increments
Meters 0.25m increments

F=Feet, M=Meters

SLXXXXX-XXXXXXXXXX-XX.XXX

Connector Codes 2 or 3 Characters

CableType
SF = Super Flex
LL = Low Loss

Maximum Frequency
04 = 4 Ghz (BNC Only)
06 = 6 Ghz
18 = 18 Ghz

SM = SMA male
SF = SMA female
S1T = SMA male oneTurn™
SMR = SMA right angle
NM = Type N male
N1T = Type N OneTurn™
NF = Type N female
NMR = Type N right angle
70M = 7mm
TM = TNC male
TF = TNC female
QMM = QMA male

First Connector

Second Connector

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

International Sales: +1 203 949 8503 • +1 800 867 2629

China Sales: TMC Building 4, No. 318 Yuanshan Road, Xinzhuang Industrial Park, Shanghai, China 201108 Tel: 86-21-5176-1209 Fax: 86-21-64424098

www.timesmicrowave.com

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SL-SF/LL 04/15