

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 (SuperFlex)

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 (LowLoss)

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[®].

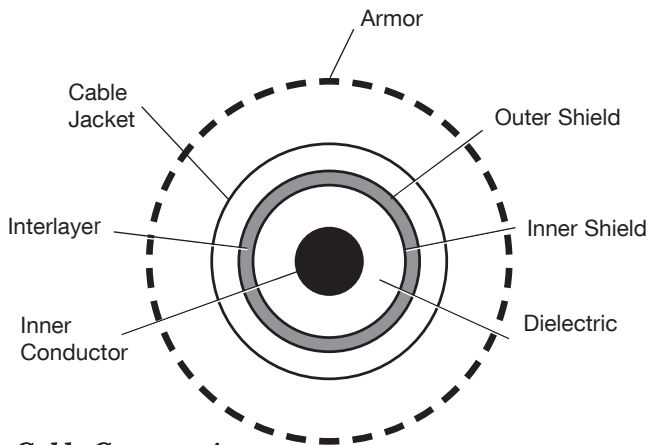
Time's Silverline[®] Product Guarantee

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[®] (SuperFlex); solid PTFE
SilverLine-LL[®] (LowLoss); 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.

*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		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 (ten, 180° reverse bends)	DC - 6 Ghz: +/- 1.5° >6 - 18 Ghz: +/- 5°			
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

CableType
 SF = SuperFlex
LL = LowLoss

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

SLXXXXX-XXXXXX-XX.XXX

Feet 0.5 ft increments
 Meters 0.25m increments

F=Feet, M=Meters

Connector Codes 2 or 3 Characters

SM = SMA male
 SIT = SMA male OneTurn™
 SF = SMA female
 SMR = SMA right angle
 NM = Type N male
 NIT = 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: 4 School Brae, Dysart, Kirkcaldy, Fife, Scotland KY1 2XB UK • Tel: +44(0)1592655428

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