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 $^{\circledR}$ -SF (Super Flex) SilverLine $^{\circledR}$ -SF is approximately 40% more flexible than traditional SilverLine $^{\circledR}$. 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

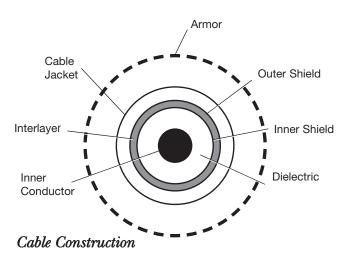
Times will repair or replace your SilverLine test cable at its option if the connector attachment fails within four months of shipment. This guarantee excludes cable or connector interface damage from misuse or abuse.

TIMES MICROWAVE SYSTEMS

Features & Benefits

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

SilverLine®-SF & LL



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

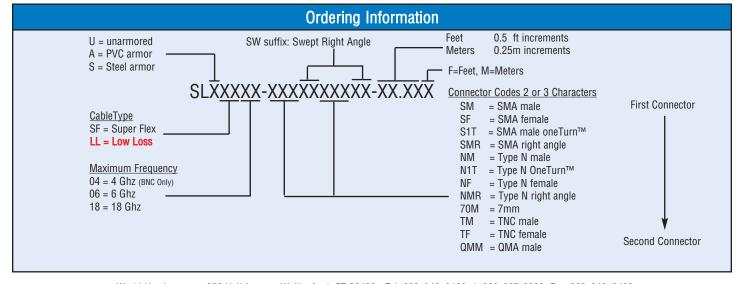
PVC Style: Steel reinforced, thick wall high flex life clear PVC

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			m	m	
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						
		4 Ghz	6	Ghz	18 Ghz	
VSWR BNC		1.2:1				
Max 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/	dB/100 ft (dB/100 m) dB/		dB/100 1	ft (dB/100 m)	
1	1	12 (40)		10	(33)	
2	1	18 (59)		15	(49)	
6	_	34 (112)		26	(85)	
12	_	52 (174)		37	(121)	
18	6	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 6	363 180			240 130		
12	117			90		
18	88			70		



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