

Coax Test Cables for:

- High volume, in-process production test
- Incoming/final test inspection
- RF test systems interconnects



SilverLine® Test Cables are cost effective, durable, high performance cable assemblies designed for use in a broad range of test and interconnect applications. Fabricated from rugged, solid PTFE dielectric cable with stainless steel connectors and a proven strain relief system, these cables provide long life and excellent stability in applications where they are repeatedly flexed and mated/unmated. SilverLine® test cables are ideal for use in production, field and laboratory test environments. They are also economical enough to be used as interconnects in test systems.

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:

- Phase & Loss Stable
- Long Flex Life
- Triple Shielded Cable
- High Mating Cycle, Stainless Steel Connectors
- Rugged, Solder-Clamp Attachment
- Redundant, Long Life Strain Relief System
- ROHS Compliant

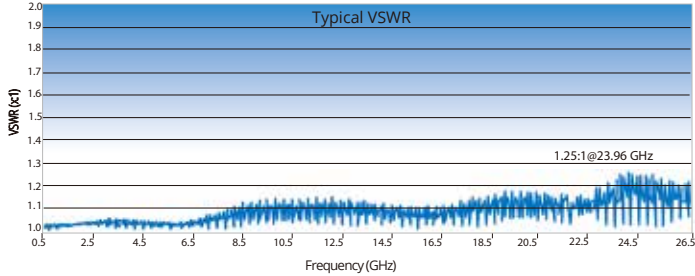


Flex Test (one full cycle)



Cable is pulled off center 10" in both directions

** Phase stability data IAW Times' phase/flex test criteria as demonstrated above.
(26.5 GHz SMA Male/SMA Male, 3 ft long)



Connectors:

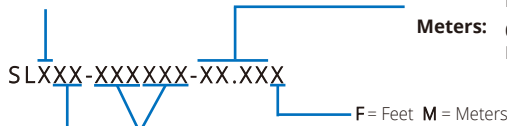
- Passivated stainless steel finish
- Captive center contact
- Thick wall, 26.5 GHz SMA
- Type N & SMA OneTurn™ (1 full rotation to mate)
- Knurl/hex coupling nut (Type N and TNC)

Connector Attachment/Strain Relief

- Rugged, solder-clamp to braid. 175-300 lb pull force. Additional crimp system on armored version.
- Redundant triple layer strain relief system (Dual layer on armored version)

Ordering Information:

U = Unarmored 1ft (0.25m) minimum assembly length
A = Armored 2 ft (0.5m) minimum assembly length
S = Steel, torque & crush resistant armor 3 ft (1.0m) min. length



Feet: 0.50 ft increments
Example: -04.50F = 4.50ft

Meters: 0.25 m increments
Example: -00.75M = 0.75m

Maximum Frequency

04 = 4.0 GHz (BNC one or both ends)
06 = 6.0 GHz
18 = 18.0 GHz
26 = 26.5 GHz



3.5mm Female (L)
Ruggedized 3.5mm Female (R)

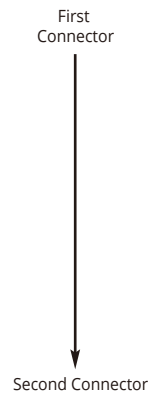


Times QMA SureGrip™

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

Connector Codes (2 or 3 Characters)

- BM = BNC Male
- SM = SMA Male
- S1T = SMA Male OneTurn™
- SF = SMA Female
- SMR = SMA Right Angle
- 35M = 3.5mm Male
- 35F = 3.5mm Female
- 3RF = 3.5mm Ruggedized Female
- NM = Type N Male
- N1T = Type N Male OneTurn™
- NF = Type N Female
- NMR = Type N Right Angle
- 70M = 7mm
- 76F = 7-16 Female
- 43M = 4.3/10 male (this is not a low PIM assembly)
- 43F = 4.3/10 female (this is not a low PIM assembly)
- TM = ETNC Male (Extended range)
- TF = ETNC Female (Extended range)
- QMM = QMA Male



Labels on unarmored assemblies under 1.5 feet (0.5m) long remain loose to increase flexibility. Some connector combinations and / or lengths may be unavailable. Please contact Times or your Times authorized representative.



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Mechanical Specifications					
Dimensions		in	mm		
Armored Diameter: armor/strain relief		0.450	11.50		
Unarmored Diameter: cable/strain relief		0.195	4.950		
Min bend radius, armored (max flex life)		2.25	57		
Min bend radius, unarmored (max flex life)		1.00	25		
Crushing (armored version)	PVC:1200 lbs. per linear inch -Steel: 1500 lbs.per linear inch				
Mating Life Cycle *	QMA, SMA, Type N: >5000				
Temperature range	-67°/+ 185°F -55°/+85°C				
Electrical Specifications					
Impedance	50 Ohms				
Velocity of Propagation	70%				
Shielding Effectiveness	>-90 dB				
VSWR (maximum)	BNC	4 GHz	6 GHz	18 GHz	26.5 GHz
	7-16 DIN	1.20:1			
	SMA, QMA, 3.5mm		1.25:1		
	Type N, TNC		1.20:1	1.30:1	1.35:1
	7mm		1.30:1 (cube R/A)	1.35:1 (cube R/A)	
Phase Stability** (50,000 cycles)	typical	+/-2° through 18GHz +/-3° through 26.5GHz			
Attenuation, max@77°F (25°C)		dB/100 ft		(dB/100 m)	
	6 GHz	34		112	
	18 GHz	68		224	
	26.5 GHz	89		290	
Cable Power Handling (Cable Only)					
@77°F (25°C) sea level, watts (max)					
	6 GHz			180	
	18 GHz			88	
	26.5 GHz			65	

Specifications subject to change without notice

* SMA Male & Type N: Assumes use of calibrated torque wrench, proper care and cleaning of interface and mated connector is within mil spec limits. QMA: Assumes proper use, care and cleaning.
** RF stability and flex life are in accordance with the flex test method example. Data is for cables 4ft or shorter. Longer cables may exhibit different stability characteristics. A cable will exhibit some instability when new. A very brief period of use is required to alleviate cable component stresses from manufacturing after which the cable will "settle" and maintain the values stated.