TIMES MICROWAVE SYSTEMS
An Amphenol Company

SilverLine® Test Cables

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:

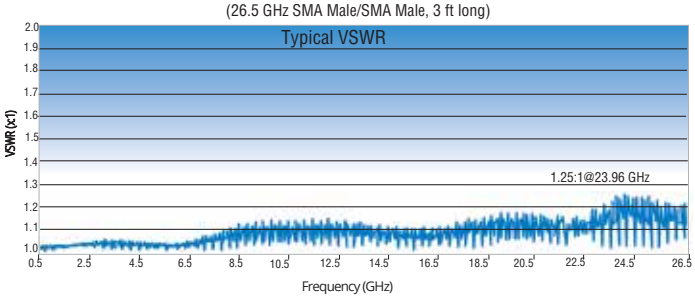
- Phase & Loss Stable
- Long Flex Life
- Triple Shielded Cable
- High Mating Cycle, Stainless Steel Connectors
- Rugged, Solder-Clamp Attachment
- Redundant, Long Life Strain Relief System
- ROHS Compliant

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)

Mechanical Specifications		
Dimensions	in	mm
Armored Diameter: armor/strain relie	0.450	11.50
Unarmored Diameter: cable/strain reli	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			
		4 GHz	6 GHz	18 GHz	26.5 GHz
VSWR (maximum	BNC	1.20:1			
	7-16 DIN		1.25:1		
	SMA, QMA,3.5mm		1.20:1	1.30:1	1.35:1
	Type N, TNC, Swept R/A		1.30:1 (cube R/A) 1.35:1 (cube R/A)		
	7mm		1.25:1	1.35:1	
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.

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

SW suffix: Swept Right Angle

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

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

SLXXX-XXXXXXXXXX-XX.XXX

F= Feet M = Meters

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

First Connector

SMNM is correct,
NMSM is incorrect

Second Connector

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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