SilverLine™ Specifications:

SilverLine™-QMA Changeable Interface System





Specifications:

- Frequency Response: DC-18.0 GHz(QMA, SMA, Type N, TNC)
- VSWR: 1:35:1 Maximum, 1:25:1 Typical (Cable Assembly with Mated Adaptor)

Features & Benefits:

- High Frequency Operation
- 5000 Mate Life
- SureGrip™ Coupling Nut
- Smooth, Fast Retraction for Quick Changes
- Large Interface Selection
- Between Series & Reverse Polarity Interfaces

Adaptors From QMA Jack To:



(Lengthened) 3191-141EA



3191-182EA



3191-148EA



Reverse Polarity 3191-193EA



Reverse Polarity 3191-199EA Cisco Compatible



3191-143EA 3191-189EA



3191-133EA



SMA Plug **Reverse Polarity** 3191-194EA



3191-134EA

3191-184EA (standard)



PL259 Plug



3191-183EA



3191-187EA





3191-192EA





SMB Jack 3191-196EA

Between & Within Series Adaptors and Termination



N Plua - QMA 3191-190EA



QMA Plug-QMA Plug Adapter 3191-197EA



3191-204EA



QMA Plug-SMA Jack 2-Watt QMA Load 3191-264EA



3191-188EA

SMA Plug-QMA Plug Between Series 3191-195EA



QMA Jack-QMA Jack Adapter 3191-198EA



Release Tool (High Volume Testing) 3190-1941EA



Soft Kit Pouch Hard Kit Case (3190-584)(3190-2169EA)



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SilverLine[™]

Test Cables

Coax Test Cables for:

- High Volume Production Test Stations
- Research & Development
- Environmental & Temperature Test Chambers
- Replacement for OEM Test Port Cables
- Field RF Testing
- Cellular Infrastructure Site Testing



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

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.

ISO 9001 Certified

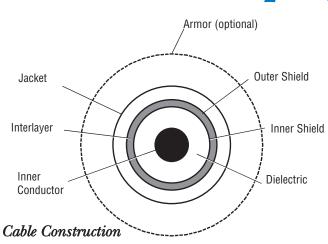
Features & Benefits:

- 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



interface damage from misuse or abuse.

SilverLine[™] Specifications:



Inner Conductor: Solid Silver Plated Copper Clad Steel

Dielectric: Solid PTFE

Shield: Silver-Plated Copper Flat Ribbon Braid Aluminum-Polyimide Tape Interlayer 36 GA Silver-Plated Copper Braid (90%k)

Jacket: Clear FEP Armor (Optional):

PVC Style: Steel wire 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

- Passivated stainless steel finish (Complete QMA right angle and QMA straight coupling nut only are nickel plated brass)
- QMA SureGripTM coupling nut design
- Captive contact
- Thick wall interface (SMA)
- Gold plated beryllium copper center contacts
- PTFE dielectric
- Type N & SMA OneTurnTM (1 full rotation to mate)
- High temperature 7mm
- Knurl/hex coupling nut (Type N and TNC)
- Precision grade 7-16

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)



Physical & Mecha	anical Specification	ns			
Dimensions	in	mm			
Inner Conductor	0.037	0.94			
Dielectric	0.116	2.95			
Inner Shield	0.126	3.20			
Interlayer	0.132	3.35			
Outer Shield	0.154	3.91			
Jacket	0.195	4.95			
Armor (optional)	0.450	11.50			
Weight lbs./ft (kg/m)	Cable: 0.043 (0.064)	Armor: 0.066 (0.098)			
Armor Crush Resistance	PVC:1200 lbs. per linear inch -	Steel: 1500 lbs. per linear inch			
Bend Radius: minimum	1	25			
Connector Retention	Unarmored & Armored PVC > 175 lbs - Steel Armored > 300 lbs				
Mating Life Cycle	SMA, Type N: > 5000* QMA: > 2500°				
Length Tolerances	≤ 2 ft. or 0.75m, -0, +0.50" (12.7mm)				
	> 2 ft. or 0.75m, -0, +2% of length				
Temperature Range	-67°/+221°F	-55°/+105°C			

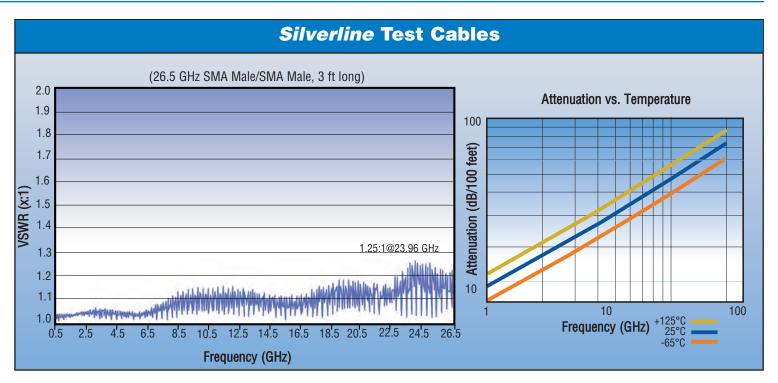
Electrical	Specifica	ations					
			4 GHz	6 GHz	18 GHz	26.5 GHz**	
VSWR Max	BNC		1.20:1				
	7-16 DIN, QMA			1.25:1			
	SMA, QMA 2.4mm, 3.5mm,			1.20:1	1.30:1	1.35:1	
	Type N, TNC			1.05.4	1.35:1(R/A's)	(SMA, 2.4mm,3.5mm)	
	7mm			1.25:1	1.35:1		
Impedance	.,		50 ohms				
Velocity of Pro					70 %		
Shielding Effec	tiveness		>100 dB				
Capacitance					t = 96.4 pf/m		
Phase Stability (ten, 4" radius, 180° reverse bends) DC to 10 GHz: +/- 1.1° 10 to 18 GHz: +/- 2.0°			.1° .0°				
Attenuation Max @ +77°F (+25°C)							
Attenuation	(GHz)	dB/100 ft dB/100 m		B/100 m			
	1	12.2 40.		40.0			
	2		18.0			59.0	
	6	34.2			112		
	12	52.5 172		172			
	18	68.4 224		224			
26.5		88.7		290			
Attenuation at Frequency (A=K1 $\sqrt{\text{FMHz}}$ + K2			FMHz + K2 F	-MHz)			
K1				0.348			
	K2 0.0012						
Power Handlin	g @ +77°F (+	25°C) (Sea	Level)	(Cable (Only***)		
Power Handlin	g (GHz)	Watts (max.)					
	0.4	891					
	1	539					
	2	363					
	6	180					
	12	117					
	18	88					
	26.5	65					
* CMA M.L. 0. T.	NI A C	171	,		1.1	61 . 6 . 1 . 1	

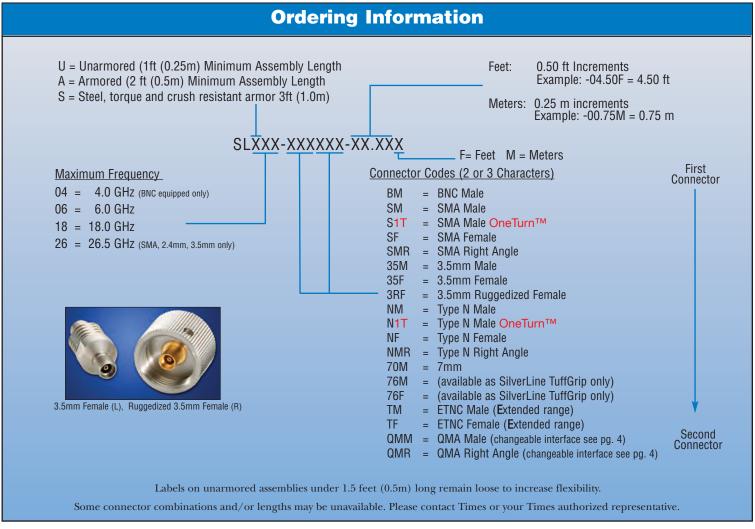
^{*} SMA Male & Type N: Assumes use of calibrated torque wrench, proper care and cleaning of interface and mated connector is within mil spec limits. – QMA: Assumes proper use, care and cleaning.

** All 26.5 GHz cables are RF characterized on a production basis through 20.0 GHz.

*** Connector configuration may limit cable assembly maximum power handling capability.

Specifications subject to change without notice.



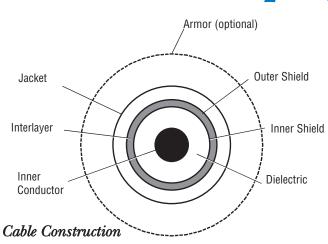




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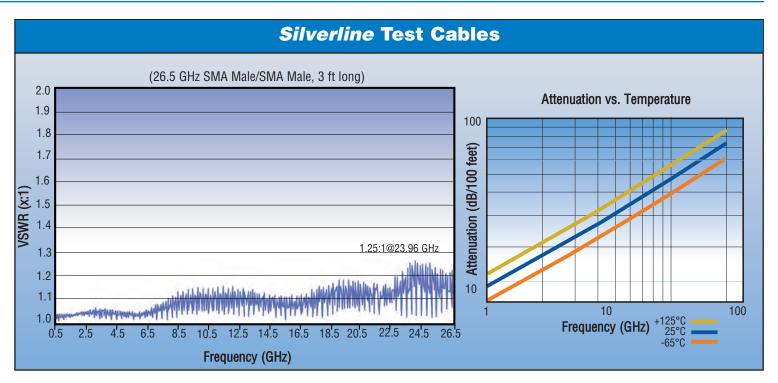
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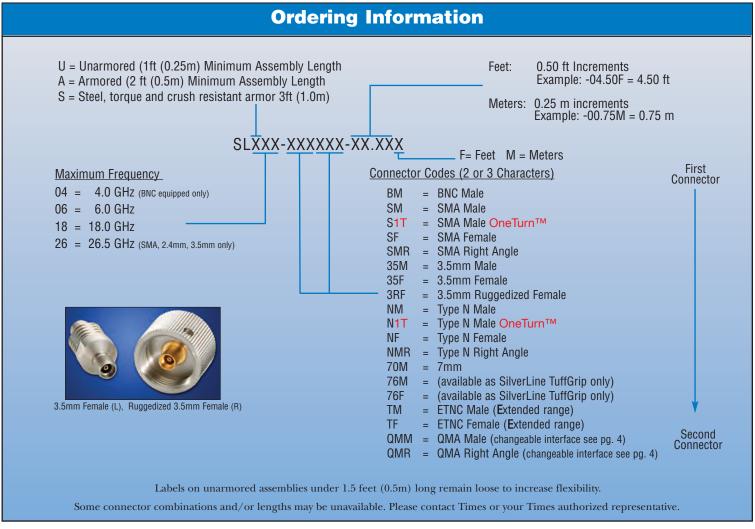
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3191-182EA



3191-148EA



Reverse Polarity 3191-193EA Cisco Compatible



Reverse Polarity 3191-199EA









3191-189EA





SMA Plug **Reverse Polarity** 3191-194EA



(standard)

3191-134EA





3191-184EA



3191-183EA



3191-187EA





3191-188EA

3191-143EA



3191-192EA





SMB Jack 3191-196EA

Between & Within Series Adaptors and Termination



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QMA Plug-QMA Plug Adapter 3191-197EA



3191-204EA



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SMA Plug-QMA Plug Between Series 3191-195EA



QMA Jack-QMA Jack Adapter 3191-198EA



Release Tool (High Volume Testing) 3190-1941EA



Soft Kit Pouch (3190-584)



Hard Kit Case (3190-2169EA)



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TIMES MICROWAVE SYSTEMS

interface damage from misuse or abuse.

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- Triple Shielded Cable
- High Mating Cycle, Stainless Steel Connectors
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