SilverLine-TG[™] ™

ISO 9001 Certified

Coax Test Cables

For Wireless System Testing:

- Cell Site Antenna & Cable Sweep Test
- Troubleshooting
- RF Maintenance
- Field RF Test





TMA Bypass 7-16 Bullet TuffGrip[®] Adaptor for Cell Site RF testing PN: 3191-291





Anritsu SiteMaster™ courtesy of Anritsu Co.

SilverLine-TG $\[mathbb{M}\]$ (**TuffGrip**[®]) test cables are designed for sweep testing cellular infrastructure site cables and antennas. Its unique features were designed by field technicians for field technicians.

TuffGrip[®] employs a hefty handgrip at the system end to better withstand the rigors of field work. It meets the demands of repeated mating and unmating to cell tower cables with connectors that may have degraded from exposure.

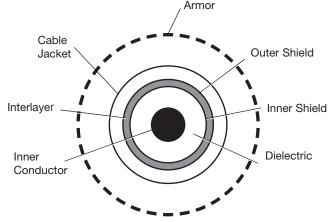
The robust hand grip allows the user to apply as much resistance as necessary to properly torque the system cable connector, while preventing excess torque from being applied to the high performance test cable. A proper connection may now be made quickly with a single wrench.

TuffGrip[®] test cables are double steel armored and anti-torqueing, yet they are completely flexible. All connectors are stainless steel for thousands of mating cycles.

Features & Benefits:

- RF stable with flexure for accurate measurements
- Rugged Construction for long life in field use
- > 50,000 flex life cable for added assurance
- High Frequency Operation to meet future needs
- Permanently attached heavy duty protective caps

SilverLine-TG[™] Specifications:



Cable Construction

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 Round Braid 90%k)

Jacket: Clear FEP

Armor. Full, 100% non-interleaved spiral steel sheath overlaid with captured, opposing-force structure for anti-torque resistance. Waterpfoof, UV resistant, black TPE outer jacket.

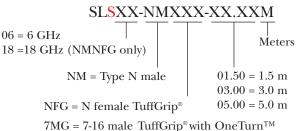
Connectors

- Passivated stainless steel finish
- Captive contact
- Precision grade connectors
- 7-16 male includes retractable coupling nut with Times exclusive OneTurnTM fast mating feature
- Knurl/hex Type N coupling nut

Connector Attachment

- System side: TuffGrip[®] (patented)
- Analyzer side: solder/clamp/crimp

Ordering Information



retractable coupling nut

7FG = 7-16 female TuffGrip®

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Times' SilverLine-TG ™ Replacement Guarantee

Times will repair or replace your SilverLine-TG test cable at its option if the connector attachment fails within one year of shipment. Excludes cable or connector interface damage from misuse or abuse.

TuffGrip	Ð					
Mechanic	al Specific	ations				
Dimensions		in		mm		
Armored O.D.		0.430		10.92		
Minimum Bend Radius		2.50		63.5		
Connector Retention		> 290 lbs.				
Armor Crush Resistance		> 1200 lbs. per linear inch				
Mating Life Cycle		> 5,000*				
Flex Life		> 50,000**				
Temperature Range		-67°/+221°F		-55°	-55°/+105°C	
Electrical	Specificati	ons				
Impedance		50 ohms				
Velocity of Propagation		70 %				
Shielding Effectiveness		>100 dB				
Capacitance		29.4 pf/ft = 96.4 pf/m				
Phase Stabilit (ten, 4" radius	y s, 180° revei	DC to rse bends) 10 to	10 (18 C	GHz: +/- GHz: +/- 2	1.1° 2.0°	
VSWR Max			6	GHz 18 GHz		
		Type N	1.	20:1 1.35:1		
		7-16	1.	25:1		
Attenuation M	lax @ +77°F	- (+25°C)				
Frequency	(GHz)	dB/100 ft		dB/100 m		
	1.0	12.2		40.0		
2.0		18.0		59.0		
6.0		34.2		112.0		
	18.0	68.4		224.0		
	ng @ +77°F	(+25°C) (Sea Level)	(Cab	le Only**	*)	
Frequency (GHz) Watts (max)		
	1	539				
2		363				
6		180				
	18	88				
3191-291 Ad	laptor Speci					
Max VSWR:		DC-800 MHz		1.03:1		
		800-1.90 GHz 1.9 - 2.6 GHz		1.05:1		
		2.6 - 5.9 GHz		1.15:1		
		2.0 - 3.9 GHZ		1.15.1		

Specifications subject to change without notice

*Assumes the use of a calibrated torque wrench, proper care and cleaning of interface, and mated connector is within mil spec limits.

** Minimum bend radius not to be exceeded.
*** Connector configuration may limit cable assembly maximum power handling capability

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