

SilverLine®-TG TuffGrip®

Coax Test Cables



ISO 9001 Certified

For Wireless System Testing:

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



Anritsu SiteMaster™ courtesy of Anritsu Co.



Shortened Grip

SilverLine®-TG (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.

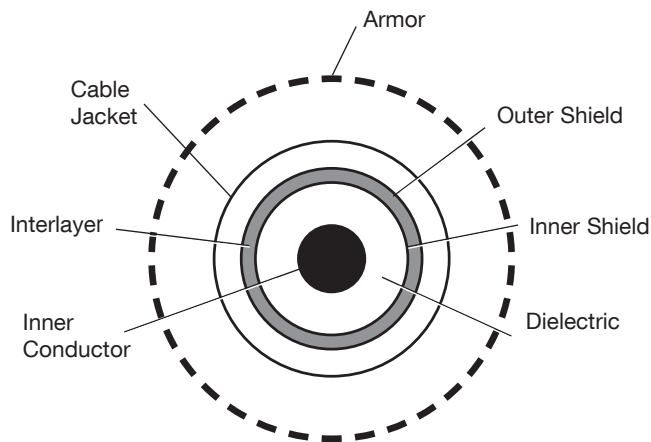
The robust hand grip allows the user to apply as much resistance as necessary to properly torque the system cable connector, while preventing excess torque from being applied to the high performance test cable. A proper connection may now be made quickly with a single wrench.

TuffGrip® test cables are double steel armored and anti-torquing, 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
- **NEW short grip option**

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.



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. Waterproof, UV resistant, black TPR outer jacket

Connectors

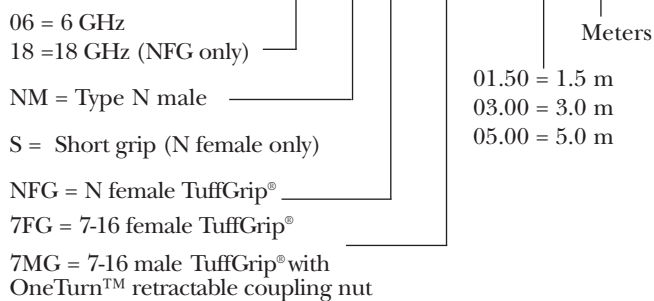
- Passivated stainless steel finish
- Captive contact
- Precision grade connectors
- 7-16 male includes retractable coupling nut with **Times** exclusive OneTurn™ fast mating feature
- Knurl/hex Type N coupling nut

Connector Attachment

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

Ordering Information

SLSXX-NMXXXX-XX.XXM



Shortened Grip

TuffGrip®

Mechanical Specifications

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°/+105°C

Electrical Specifications

Impedance	50 ohms		
Velocity of Propagation	70 %		
Shielding Effectiveness	>100 dB		
Capacitance	29.4 pf/ft = 96.4 pf/m		
Phase Stability (ten, 4" radius, 180° reverse bends)	DC to 10 GHz: +/- 1.1° 10 to 18 GHz: +/- 2.0°		
VSWR Max		6 GHz	18 GHz
	Type N	1.20:1	1.35:1
	7-16	1.25:1	

Attenuation Max @ +77°F (+25°C)

Frequency (GHz)	dB/100 ft	dB/100 m
1.0	12	40
2.0	18	59
6.0	34	112
18.0	68	224

Power Handling @ +77°F (+25°C) (Sea Level) (Cable Only***)

Frequency (GHz)	Watts (max.)
1	539
2	363
6	180
18	88

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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