



SITELINE™

SiteLine™ Armored Test Cables to 18 GHz

SiteLine Armored Test Cables

- Phase & Amplitude Stable
- Crush Proof 250 lbs/in (.46 kg/cm)
- Field and High Impact Production
- Rugged Armor
- Severe Environment
- Flight Line Testing

MegaPhase's SiteLine™ test cable assemblies are protected by a super-rugged armor designed for severe environments, such as flightline, outdoor antenna testing, and demanding production environments. This "gorilla proof" cable endures torque, twist, and crush forces better than any cable on the market, period. Ideal for use with FieldFox®, SiteMaster™, and Site Analyzer®.

Electrical Data

Maximum Frequency:
18 GHz

Impedance:
50 Ω nominal

Propagation Velocity:
SL 18 - 69% nominal

Time Delay:
SL 18 - 1.47 ns/ft (4.82 ns/m)

Shielding Effectiveness:
-115 dB minimum (cable only)

Dielectric Withstanding Voltage:
SL 18 - 10 kV at 60 Hz

Capacitance:
SL 18 - 29.0 pF/ft (95.1 pF/m)

Mechanical Data

Finished Outer Diameter:
0.5 in (1.27 cm)

Static Bend Radius:
3.0 in (7.62 cm)

Weight with Standard Jacket/Armor:
0.28 lbs/ft (0.417 kg/m)

Crush Resistance:
250 lbs/linear in (44.6 kg/linear cm)

Operating Temp. Range:
-85 to 248° F (-65 to 120° C)
Above 185° F (85° C) use "T" designation

Cable Construction

Inner Conductor: Solid Ag-plated Cu

Dielectric:
SL 18 PTFE

Outer Conductor:
SL 18 GrooveTube® Cu

Standard Finished: Neoprene

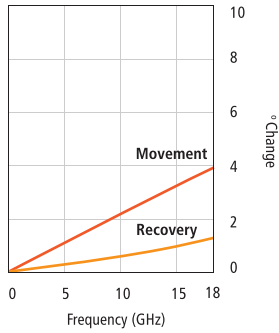
Available Connectors

7-16 DIN, BNC, SMA, TNC, Type N

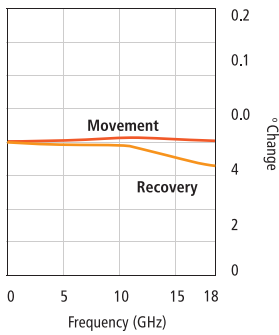
MegaPhase standard connectors are designed using passivated 303 Stainless Steel. These designs pass Salt Spray testing in accordance with Mil-Std-202 Method 101 condition C. MegaPhase suggests for more stringent environments the use of 303 Stainless Steel Gold plated connectors, this must be requested at the time of quoting.

SiteLine™ Armored Test Cables to 18 GHz (continued)

SL 18 Phase Change vs. Flexure



SL 18 Insertion Loss vs. Flexure

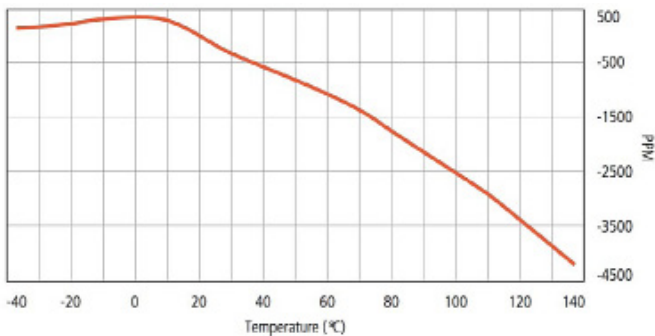


Specifications

Frequency		SL 18 Series Attenuation		Conn Loss dB	VSWR
Band	GHz	dB/ft	dB/m		
UHF	0.3	0.062	0.203	0.006	1.10
	0.5	0.082	0.268	0.009	
	0.8	0.106	0.348	0.012	
L	1.0	0.120	0.394	0.014	
S	2.0	0.178	0.585	0.024	1.15
	2.4	0.199	0.652	0.027	
	3.0	0.227	0.744	0.032	
C	4.0	0.270	0.885	0.040	1.30
	6.0	0.347	1.138	0.055	
X	8.0	0.417	1.367	0.070	1.20
	10.0	0.482	1.580	0.084	1.25
	12.4	0.555	1.822	0.101	1.30
Ku	15.0	0.631	2.070	0.118	1.35
	18.0	0.715	2.345	0.139	

*SL 18 includes SL 4, SL 8

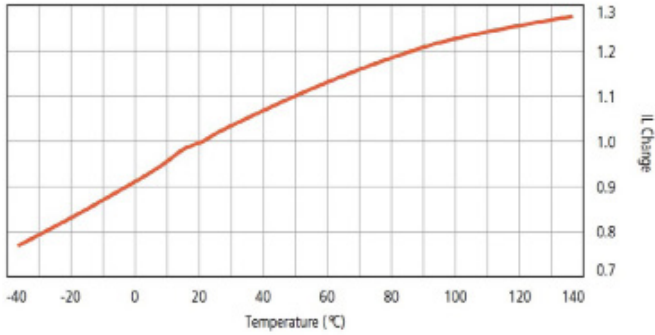
SL 18 Phase Change vs. Temperature



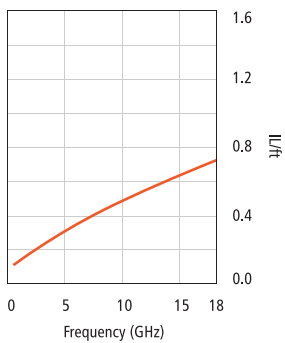


SiteLine™ Armored Test Cables to 18 GHz (continued)

SL 18 Insertion Loss vs. Temperature



SL 18 Insertion Loss



SL 18 Cable CW Power Handling

