

SITELINE™

MEGAPHASE

SITELINE™

ARMORED TEST CABLES TO 18 GHZ



Siteline™ Armored Test Cables to 18 GHz

Rugged, Phase-Stable Cable Assemblies for Severe Test Environments

- Phase & amplitude stable performance designed for field, production, and flight line testing applications
- Super-rugged armored construction withstands torque, twisting, and crush forces up to 250 lbs/in for extreme durability
- Built for severe environments including outdoor antenna testing and high-impact production setups, ideal for use with FieldFox®, SiteMaster™, and Site Analyzer®

Electrical Data

Maximum Frequency	Impedance	Propagation Velocity	Time Delay
18 GHz	50 Ω nominal	69% nominal	1.47 ns/ft (4.82 ns/m)
Shielding Effectiveness	Dielectric Withstanding Voltage	Capacitance	
-115 dB minimum (cable only)	10 kV at 60 Hz	29.0 pF/ft (95.1 pF/m)	

Mechanical Data

Finished Outer Diameter	Static Bend Radius	Weight with Standard Jacket/Armor	Crush Resistance	Operating Temp Range
0.5 in (1.27 cm)	3.0 in (7.62 cm)	0.28 lbs/ft (0.417 kg/m)	250 lbs/linear in (44.6 kg/linear cm)	-85 to 248°F (-65 to 120°C) Above 185°F (85°C) use "T" designation

Cable Construction

Inner Conductor	Dielectric	Outer Conductor	Standard Finish
Solid Ag-plated Cu	PTFE	GrooveTube® Cu	Neoprene

Available Connectors

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

Other connectors available upon request

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.



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Specifications

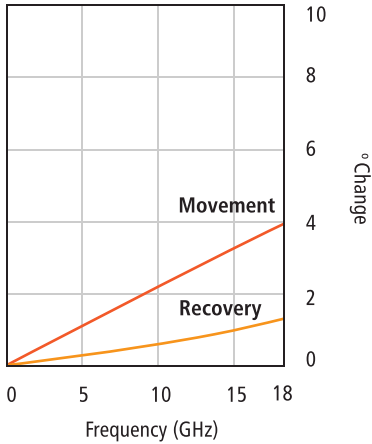
Frequency		SL 18 Series		Conn Loss dB	VSWR	
		Attenuation				
Band	GHz	dB/ft	dB/m			
UHF	0.3	0.062	0.203	0.006	1.10	
	0.5	0.082	0.268	0.009		
	0.8	0.106	0.348	0.012		
L	1.0	0.120	0.394	0.014	1.15	
S	2.0	0.178	0.585	0.024		
	2.4	0.199	0.652	0.027		
	3.0	0.227	0.744	0.032		
C	4.0	0.270	0.885	0.040		1.20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

*SL 18 includes SL26, SL18, SL8, SL4

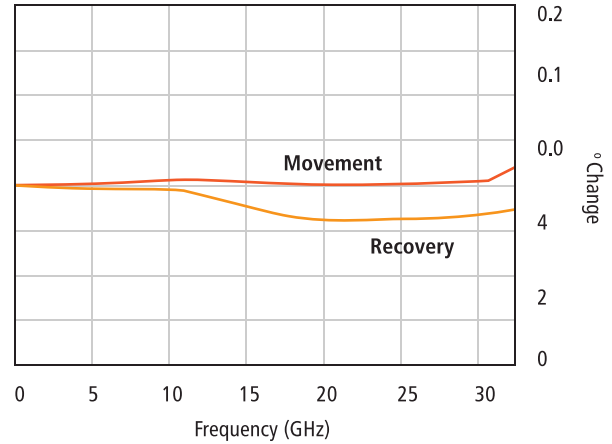


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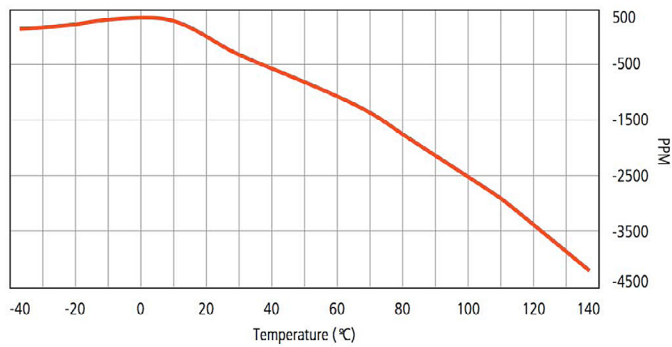
SL 18 Phase Change vs. Flexure



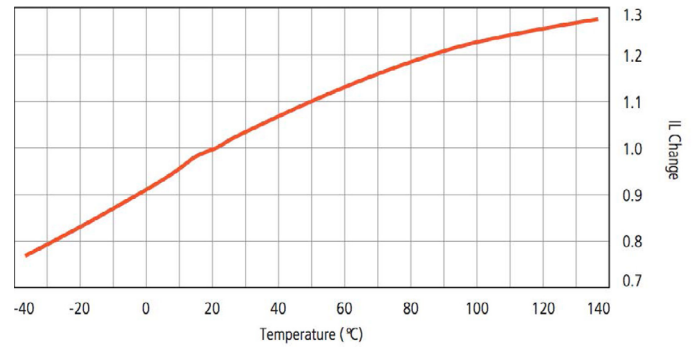
SL 18 Insertion Loss vs. Flexure



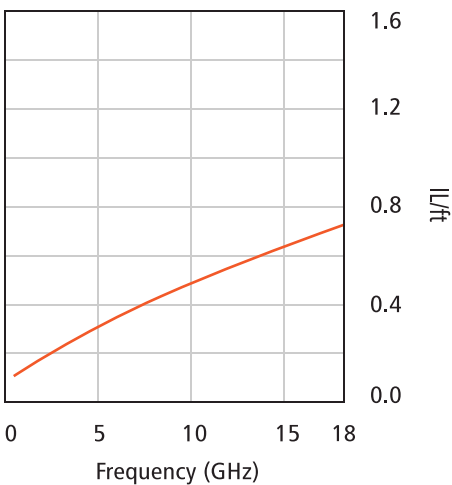
SL 18 Phase Change vs. Temperature



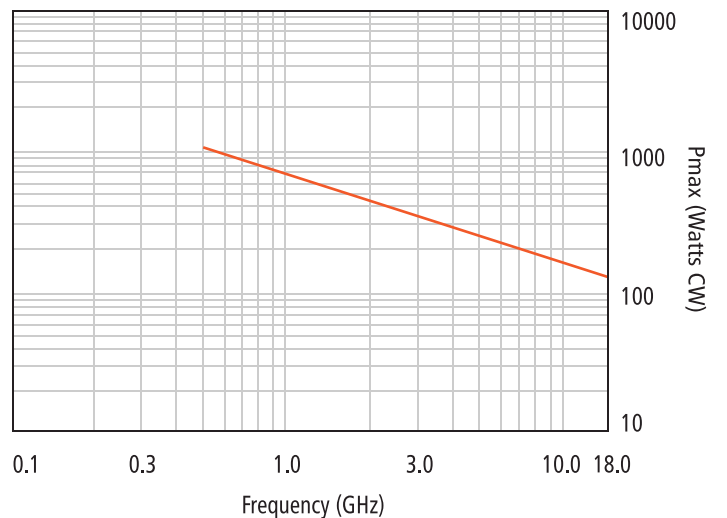
SL 18 Insertion Loss vs. Temperature



SL 18 Insertion Loss



SL 18 Cable CW Power Handling



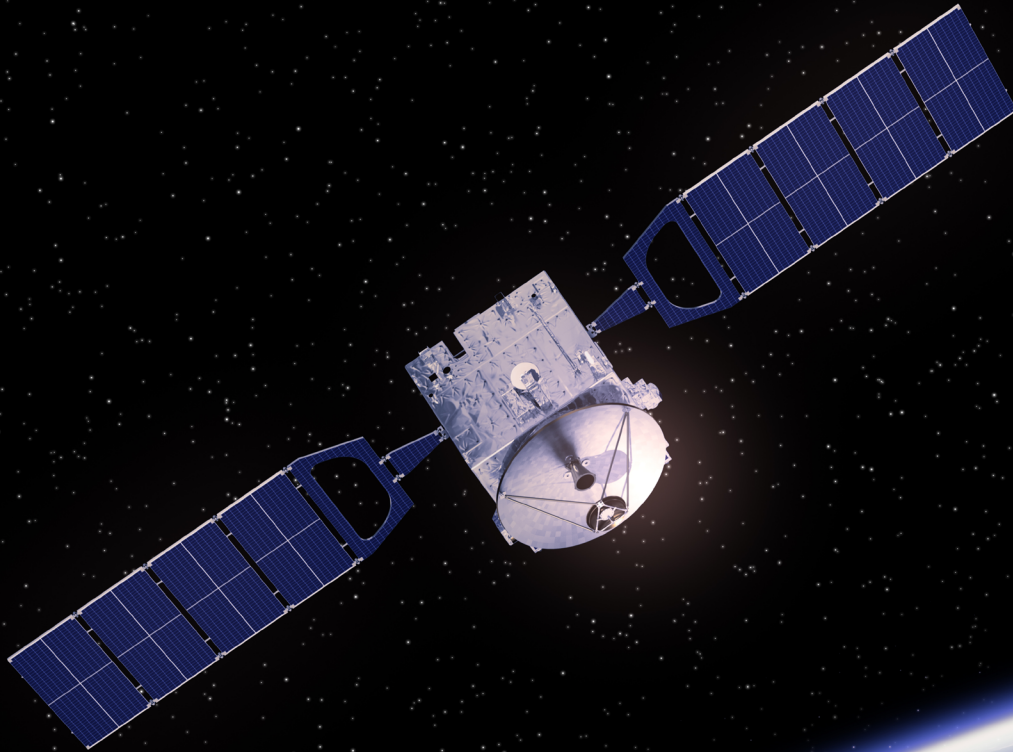
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MegaPhase®

With the right connection anything is possible



Visit us at megaphase.com

About us

Founded in 1998 and headquartered in Stroudsburg, Pennsylvania, MegaPhase designs and manufactures high-performance RF coaxial cables and connectors for OEMs in critical markets including test instrumentation, defense, aerospace, telecommunications, and satellite systems. Serving more than 500 customers in 30 countries—including major technology leaders and the U.S. government—MegaPhase is best known for its industry-leading GrooveTube® technology, a breakthrough flexible cable design used in high-reliability, high-power, and phase-defined applications across ground, sea, air, and space platforms. All products are manufactured in-house, tested 100% in a state-of-the-art RF lab up to 110 GHz, and engineered to deliver exceptional phase stability, low loss, and long-term measurement repeatability, helping customers achieve more reliable results at a lower cost per measurement.

MegaPhase

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