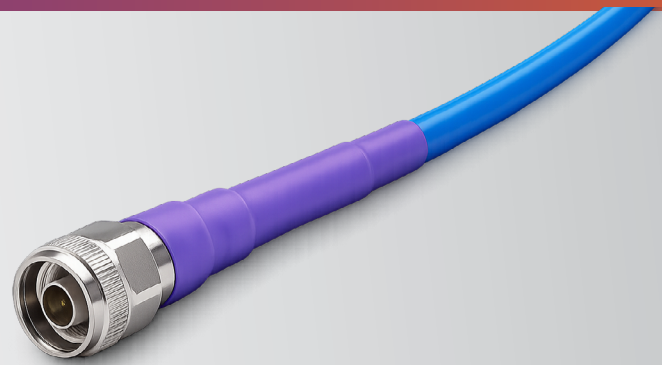


## BROADBAND TEST MEGAPHASE BROADBAND TEST CABLES TO 8 GHZ



### Broadband Test Cables to 8 GHz

High-Performance 75-Ohm Cables for Broadcast, IoT & CATV Testing

- Lightweight, rugged 75-ohm cable assemblies designed for repeatable bench-top testing in broadcast, IoT, satellite, CATV, and IPTV applications
- Stable performance under flexure with excellent VSWR of 1.10:1 at 4 GHz for accurate, repeatable measurements between calibrations
- Precision connector options including Type N, F, and BNC support a wide range of RF test environments and devices

### Electrical Data

Maximum Frequency	Impedance	Propagation Velocity	Time Delay
8 GHz	75 $\Omega$ nominal	84% nominal	1.21 ns/ft (3.97 ns/m)
Shielding Effectiveness	Dielectric Withstanding Voltage	Capacitance	
-110 dB minimum (cable only)	3 kV at 60 Hz	15.8 pF/ft (51.8 pF/m)	

### Mechanical Data

Finished Outer Diameter	Static Bend Radius	Weight with Standard Jacket/Armor	Crush Resistance	Operating Temp Range
0.285 in (0.724 cm)	1.5 in (3.81 cm)	0.06 lbs/ft (0.089 kg/m)	250 lbs/linear in (44.6 kg/linear cm)	-67 to 185°F (-55 to 85°C)

### Cable Construction

Inner Conductor	Dielectric	Outer Conductor	Standard Finish
Solid Cu	Foamed Polyethylene	GrooveTube® Cu	Polyolefin over Sn-plated metallic braid

(A wide variety of other protective finishes and armors available)

### Available Connectors

BNC, F, Type N

(Maximum frequency dependent on cable)

Other connectors available upon request



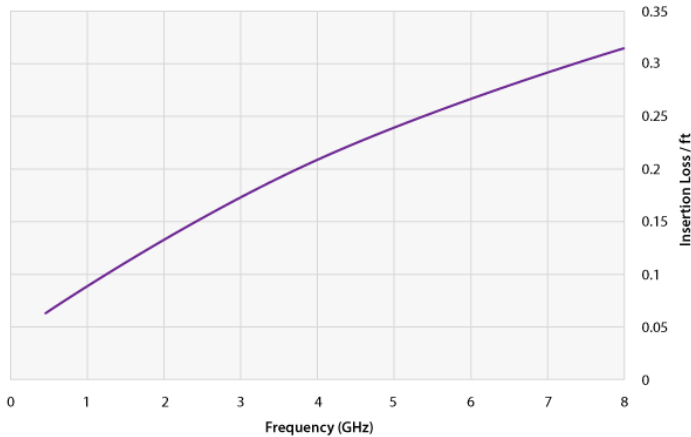
## MEGAPHASE BROADBAND TEST CABLES TO 8 GHZ

### Specifications

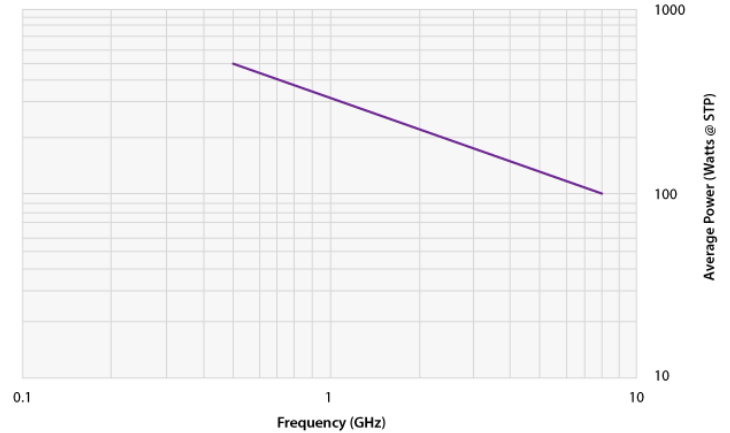
Frequency		Attenuation		Conn. Loss dB	VSWR
GHz	Band	dB/ft	dB/m		
0.3	UHF	0.046	0.152	0.006	1.10
0.5		0.061	0.201	0.009	
0.8		0.080	0.261	0.012	
1.0	L	0.090	0.296	0.014	1.15
2.0	S	0.134	0.441	0.024	
2.4		0.150	0.491	0.027	
3.0	C	0.171	0.562	0.032	1.20
4.0		0.204	0.669	0.040	
6.0	X	0.263	0.862	0.055	
8.0		0.316	1.037	0.070	

\*Note: Typical Insertion Loss dB = (Attenuation)(Length) + 2(Conn. Loss)  
 Attenuation at any frequency =  $(0.784 \times \sqrt{\text{freq GHz}}) + (0.0118 \times \text{freq GHz})$

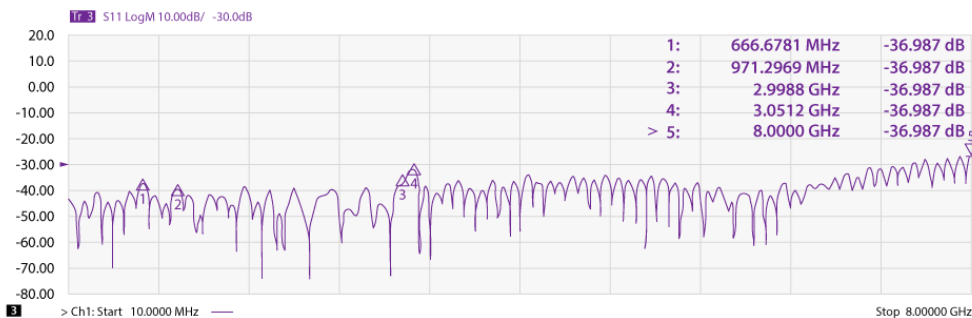
### Cable Insertion Loss



### Cable CW Power Handling



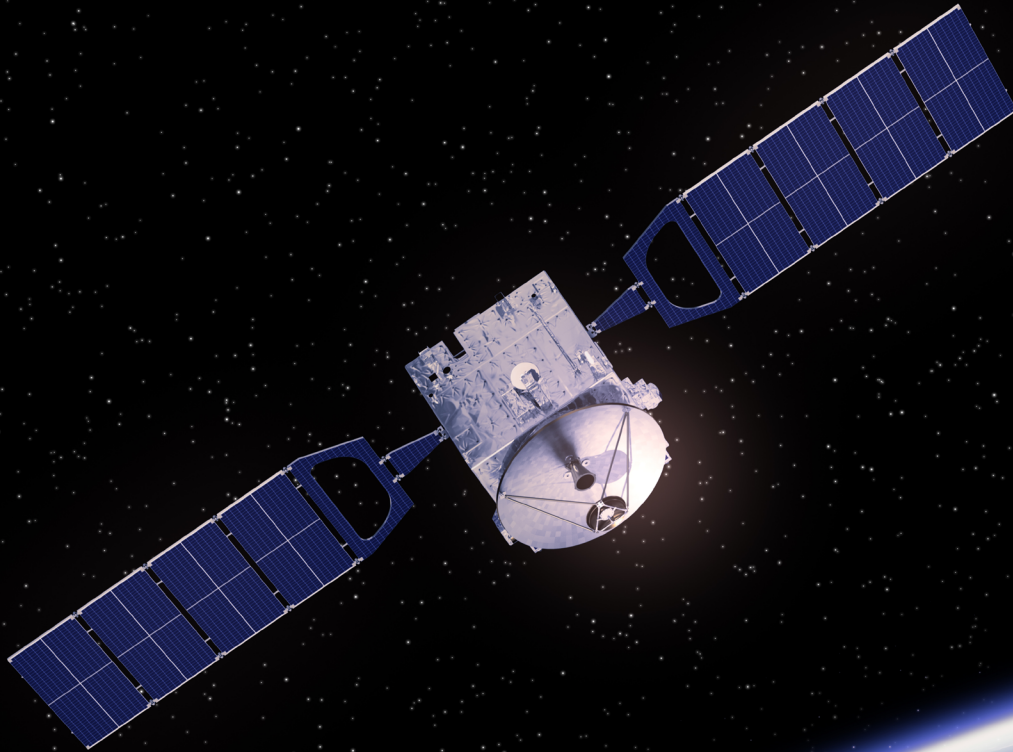
### Typical Return Loss Terminated





# MegaPhase

*Our Customers Connect With Us™*



**Visit us at [megaphase.com](http://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**

122 Banner Road, Stroudsburg, PA 18360-6433 | Tel: 570-424-8400 | [Solutions@MegaPhase.com](mailto:Solutions@MegaPhase.com)