MegaPhase

RFGREEN™

RF Green™ Test Cables to 26.5 GHz

Eco-Friendly, Phase Stable Performance

- RoHS Compliant
- Zero Halogen
- Zero Flourine
- Armored
- Phase Stable
- Light Weight

MegaPhase is the leader in high performance cables with minimal environmental impact. In addition to using eutectic (Pb-free) RoHS-compliant solders, these assemblies use a cellular Polyethylene dielectric to eliminate Fluorine typically found in PTFE-based products. The jacketing and labels are made from SmartGrid rubber, a Zero-Halogen solution to further our commitment to reduce environmental impact. This cable assembly is rugged and provides a great overall value for your laboratory without expanding your carbon footprint.

Electrical Data

Maximum Frequency:
26.5 GHz

Impedance:
50 Ω nominal

Propagation Velocity:
80% nominal

Time Delay:
1.27 ns/ft (4.17 ns/m)

Shielding Effectiveness:
-110 dB minimum (cable only)

Dielectric Withstanding Voltage:
7.50 kV at 60 Hz

Capacitance:
26.7 pF/ft (87.6 pF/m)

Mechanical Data

Finished Outer Diameter:
0.335 in (0.724 cm)

Static Bend Radius:
1.5 in (3.81 cm)

Weight with Standard Jacket/Armor:
0.05 lbs/ft (0.014 kg/m)

Crush Resistance:
250 lbs/linear in (44.7 kg/linear cm)

Operating Temp. Range:
-40 to 185° F (-40 to +85° C)

Cable Construction

Inner Conductor:	Solid Ag Plated Cu
Dielectric:	Foam PE
Outer Conductor:	GrooveTube® Cu
Standard Finish:	Zero Halogen Polyolefin over Metallic Braid

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

Available Connectors

2.9mm, 3.5mm, BNC, SMA, TNC, Type N
(maximum frequency dependent on cable; other connectors available)

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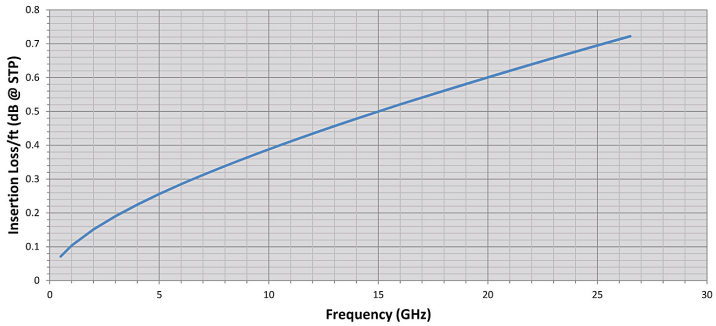
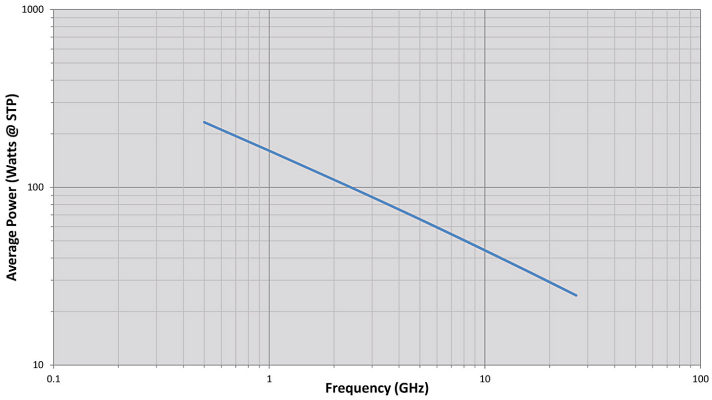
RF Green™ Test Cables to 26.5 GHz (continued)

RF Green IL versus Frequency



RF Green Power versus Frequency



Specifications

Frequency		GR Series			
		Attenuation		Conn. Loss dB	VSWR
GHz	Band	dB/ft	dB/m		
0.3	UHF	0.054	0.179	0.006	1.10
0.5		0.071	0.234	0.009	
0.8		0.092	0.301	0.012	
1.0	L	0.103	0.339	0.014	
2.0	S	0.151	0.497	0.024	1.15
2.4		0.168	0.550	0.027	
3.0		0.190	0.625	0.032	
4.0	C	0.225	0.737	0.040	1.20
6.0		0.285	0.935	0.055	
8.0	X	0.338	1.111	0.070	
10.0		0.388	1.272	0.084	1.25
12.4		0.443	1.454	0.101	1.30
15.0	Ku	0.499	1.639	0.118	
18.0		0.561	1.841	0.139	
20.0	K	0.601	1.971	0.152	1.35
22.0		0.639	2.097	0.165	
24.0		0.677	2.220	0.178	
26.5		0.722	2.370	0.194	

Note: Typical Insertion Loss dB = (Attenuation)(Length) +2(Conn. Loss)
Attenuation at any frequency = (0.0945 x √freq GHz) + (0.0089 x freq GHz)

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