

# Killer Bee™

New! KB Series Test Cable to 32 GHz

- Ultra Flexible and Rugged
- Superior Phase & Amplitude Stability
- Temperature Stable

The MegaPhase Killer Bee™ Test Cable is designed for a wide variety of lab, production and thermal testing applications. Looking for phase, amplitude and temperature stability? Killer Bee™ is the new industry standard in test.



## Electrical Data

<b>Maximum Frequency:</b>	32 GHz (40GHz coming soon!)
<b>Impedance:</b>	50 $\Omega$ nominal
<b>Propagation Velocity:</b>	86.5% nominal
<b>Time Delay:</b>	1.17 ns/ft (3.84 ns/m)
<b>Shielding Effectiveness:</b>	-110 dB minimum (cable only)
<b>Dielectric Withstanding Voltage:</b>	10 kV at 60 Hz
<b>Capacitance:</b>	29 pF/ft ( 95.1 pF/m)

## Mechanical Data

<b>Finished Outer Diameter:</b>	0.315 in, nominal
<b>Static Bend Radius:</b>	1.5 in (3.81 cm)
<b>Weight with Standard Jacket/Armor:</b>	0.04 lbs/ft (0.060 kg/m)
<b>Crush Resistance:</b>	250 lbs/linear in (44.6 kg/linear cm)
<b>Operating Temp. Range:</b>	-67 to 275° F (-55 to 135° C) Above 185° F (85° C) use "T" designation and provide temperature range.
<b>Tensile Strength:</b>	30 lbs (13.6 kg)
<b>Maximum Length:</b>	20 ft (3.05 m)

## Cable Construction

<b>Inner Conductor:</b>	Solid Ag-plated Cu
<b>Dielectric:</b>	Boundless PTFE®
<b>Outer Conductor:</b>	GrooveTube® Cu
<b>Standard Finish:</b>	NOMEX® Braid over Polyolefin Other Finishes Available Upon Request.

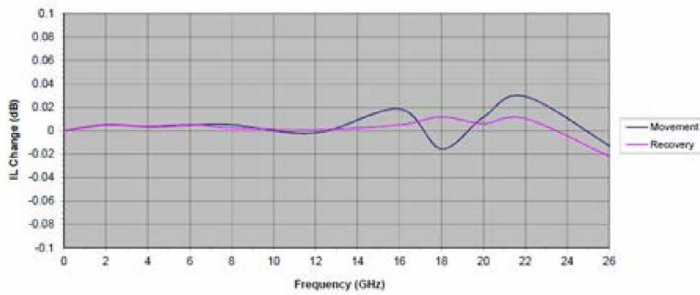
## Available Connectors

3.5mm, 2.92mm, 2.4mm, SMA, Type N, TNC and 7-16 and many others on request.

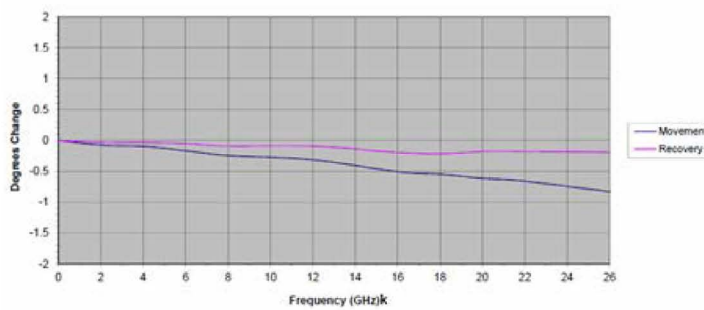
# Killer Bee™ (cont'd)

## Ultra Flexible, Phase Stable Test Cable

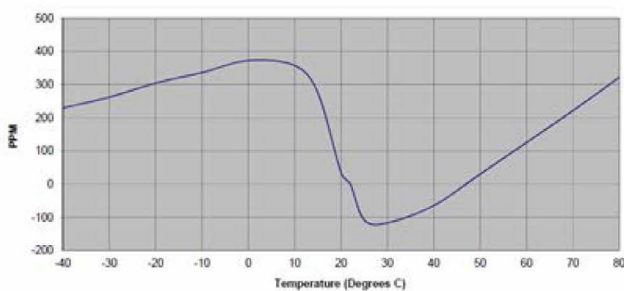
### Amplitude Change vs. Flexure



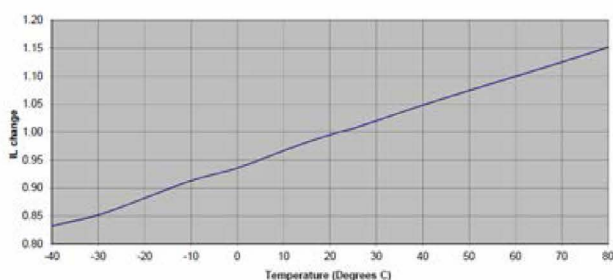
### Phase Change vs. Flexure



### Phase Change vs. Temperature



### Insertion Loss v. Temperature



### Specifications

Frequency		Part No.	Attenuation		VSWR
GHz	Band		dB/ft	dB/m	
0.3	UHF	KB4	0.052	0.17	1.10
0.5			0.067	0.22	
0.8			0.086	0.28	
1.0	L		0.096	0.31	1.15
2.0	S		0.136	0.45	
2.4			0.149	0.49	
3.0			0.167	0.55	
4.0	C		0.194	0.64	1.20
6.0			KB8	0.239	
8.0	0.277	0.91			
10.0	X	KB18		0.311	1.02
12.4	Ku		0.348	1.14	
15.0			0.384	1.26	
18.0	K	KB26	0.423	1.39	1.30
20.0			0.447	1.47	
22.0			0.47	1.54	
24.0			0.492	1.61	
26.5	Ka	KB32	0.518	1.7	1.35
28.0			0.534	1.75	
30.0			0.554	1.82	
32.0			0.573	1.88	1.40

All data tested to IEC Standard 60966-1.