JumpShot™

Flexible Jumper Cables

The popular JumpShot series cable is a attractive alternative to semi-rigid cable especially when minimal flexure is desired. It uses the same simplified connectors and assembly tooling used for 0.086 and 0.141 versions of semi-rigid cables. This cable offers a suitable low cost solution in situations where compact interconnects are needed. The end user can effectively eliminate the cost of preparing cable bend drawings which preformed semi-rigid cables would require. Applications include stable ATE and test interconnects fixtures where cable movement and flexure is not constanly anticipated.

Electrical Data

Maximum Frequency:	18.0 GHz	
Impedance:	50 Ω nominal	
Propagation Velocity:	70% nominal	
Time Delay:	1.47 ns/ft (4.82 ns/m)	
Shielding Effectiveness:	-90 dB minimum (cable only)	
Dielectric Withstanding Voltage:	B08: B14:	1.0 kV at 60 Hz 3.0 kV at 60 Hz
Capacitance:	29 pF/ft (95.1 pF/m)	

Mechanical Data

Finished Outer Diameter:	B08: B14:	0.104 in (0.264 cm) 0.163 in (0.414 cm)
Static Bend Radius:	B08: B14:	0.5 in (1.270 cm) 0.8 in (2.032 cm)
Weight with Standard Jacket/Armor:	B08: B14:	0.01 lbs/ft (0.021 kg/m) 0.03 lbs/ft (0.048 kg/m)
Operating Temp. Range:	-85 to 392° F (-65 to 200° C) Above 185° F (85° C) use "T" designation	

Cable Construction

Inner Conductor:	Solid Ag-plated Cu-clad Steel
Dielectric:	PTFE
Outer Conductor:	Ag-plated Cu Flat Braid/ Ag-plated Cu Round Braid
Standard Finish:	FEP

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

Available Connectors

B08: 3.5mm, BNC, MMCX, OSP, OSSP, SMA, SMB, SMC, SMP, SSMA, SSMB, SSMP, TNC, Type N, ZMA

B14: 3.5mm, BNC, SMA, TNC, Type N

(maximum frequency dependent on cable; other connectors available)

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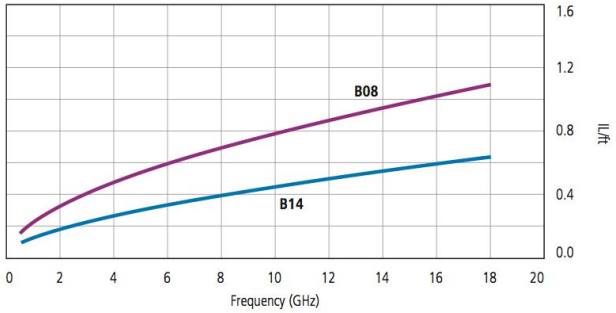
JumpShot™ (cont'd)

Specifications

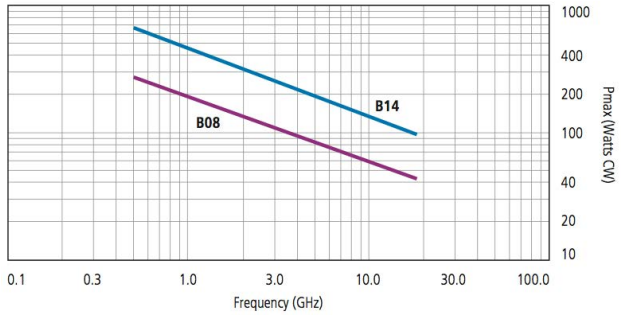
Frequency		B08 Series Attenuation		B14 Series Attenuation		Conn. Loss dB	VSWR
GHz	Band	dB/ft	dB/m	dB/ft	dB/m		
0.3	UHF	0.124	0.406	0.070	0.228	0.006	1.10
0.5		0.161	0.527	0.091	0.297	0.009	
0.8		0.205	0.672	0.116	0.379	0.012	
1.0	L	0.230	0.755	0.130	0.427	0.014	
2.0	S	0.331	1.085	0.188	0.616	0.024	1.15
2.4		0.364	1.194	0.207	0.679	0.027	
3.0		0.410	1.345	0.233	0.765	0.032	
4.0	C	0.478	1.568	0.273	0.895	0.040	1.20
6.0		0.595	1.954	0.341	1.120	0.055	
8.0	X	0.697	2.288	0.401	1.315	0.070	1.25
10.0		0.789	2.589	0.455	1.493	0.084	
12.4		0.890	2.920	0.515	1.689	0.101	1.30
15.0	Ku	0.991	3.252	0.575	1.887	0.118	
18.0		1.100	3.609	0.640	2.100	0.139	1.35

Note: Typical Insertion Loss dB = (Attenuation)(Length) + 2(Conn. Loss)
Attenuation at any frequency =
B08: (0.22097 x √freq GHz) + (0.00903 x freq GHz)
B14: (0.12357 x √freq GHz) + (0.00643 x freq GHz)

Insertion Loss



Cable CW Power Handling



Note: Data at ambient temperature and sea level. Power handling of a cable assembly is also connector dependent and includes variables such as altitude, temperature and system VSWR. See website for connector power handling standards, including altitude, temperature and VSWR derating.

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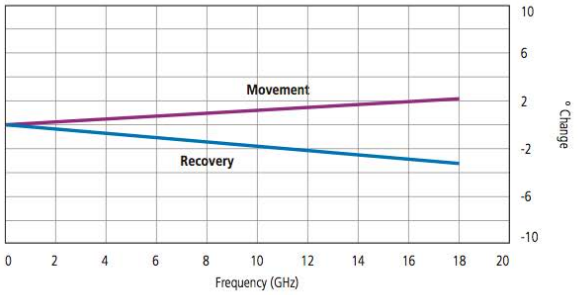
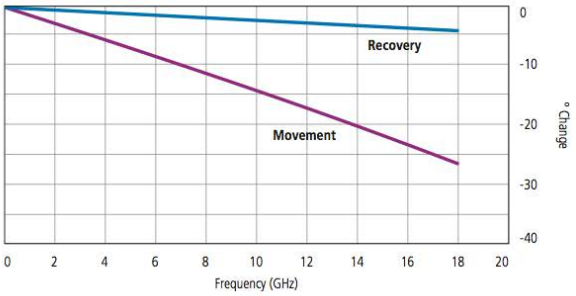
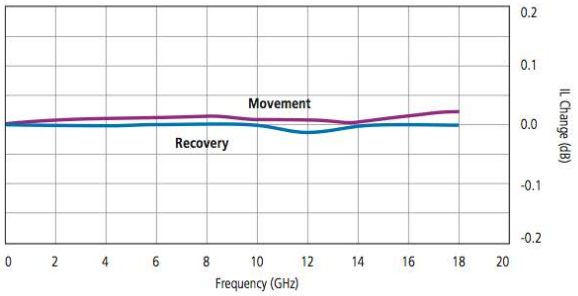
B08 Phase Change vs. Flexure



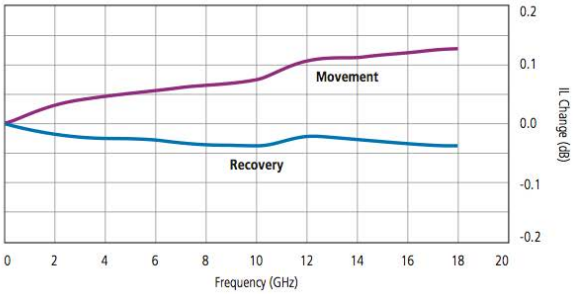
B14 Phase Change vs. Flexure



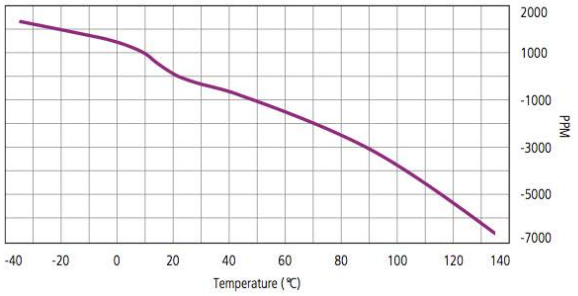
B08 Insertion Loss vs. Temperature



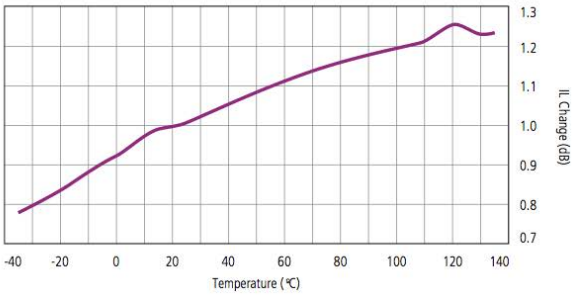
B14 Insertion Loss vs. Temperature



Phase Change vs. Temperature



Insertion Loss vs. Temperature



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