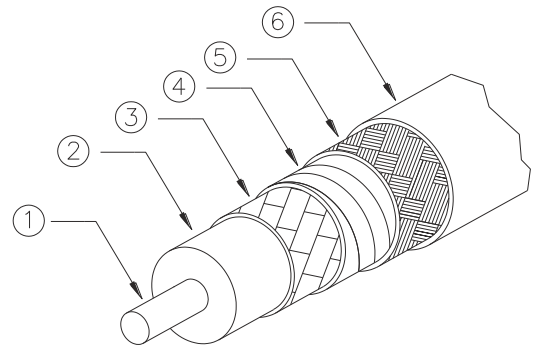


HP160 ULTRAFLEX is high performance low attenuation cable. Designed with flexibility in mind, it is ideally suited for use in production test fixtures and test labs.

- Excellent flexibility
- Low weight design, 0.027 lbs/ft
- Triple shielded for >90dB shielding effectiveness
- Low VSWR of 1.20:1
- Stable electrical performance during flexure, shake, or bend
- Operating frequency up to 40 GHz

Mechanical Characteristics

Part	Description	Diameter
1 - Center Conductor	19 strands SPC	0.034" +/- 0.001
2 - Dielectric	Extruded PTFE	0.097" +/- 0.003
3 - Outer Conductor	Silver Plated Copper Flat Braid	0.109" +/- 0.003
4 - Interlayer	Conductive Tape	0.120" +/- 0.005
5 - Shield	Silver Plated Copper Round Braid	0.136" +/- 0.005
6 - Shield	Extruded Polyurethane Slate Blue	0.168" +/- 0.005

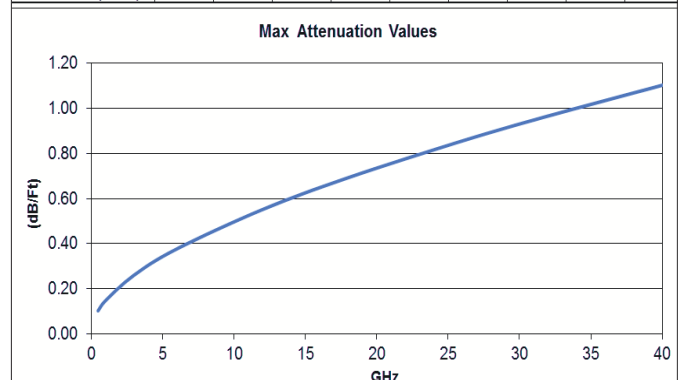


Electrical Properties

Freq (GHz)	0.5	1	3	6	12	18	25	32	40
Attenuation (dB/ft)	0.102	0.146	0.260	0.377	0.551	0.693	0.856	0.966	1.103

VSWR	1.20: 1 Max
Impedance	50 +/- 2 ohms
Velocity of Propagation	78% Nominal
Delay	1.30 ns/ft
Capacitance	27 pF/ft
Maximum Frequency	40 GHz

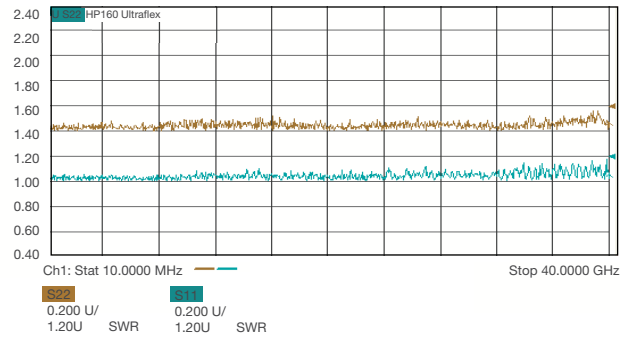
Freq(GHz)	0.5	1	3	6	12	18	26	32	40
Attenuation(dB/ft)	0.102	0.146	0.260	0.377	0.551	0.693	0.856	0.966	1.103



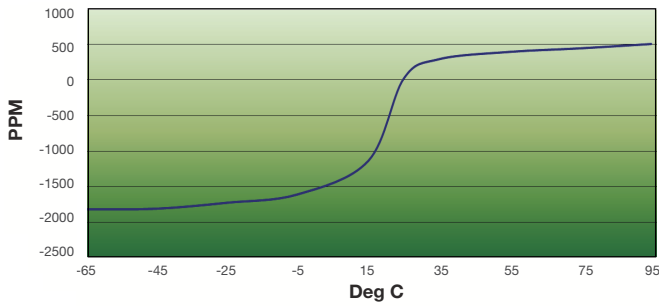
Additional Specifications

Weight/1000ft	27 lbs (approx.)
Minimum Bend Radius	0.90" (min)
Continuous Length	100 ft
Operating Temperature	-65°C +85°C
Shielding Effectiveness	90 dB (min. at 1-18GHz)
Constants; dB/100ft	K1=13.33 K2=0.87

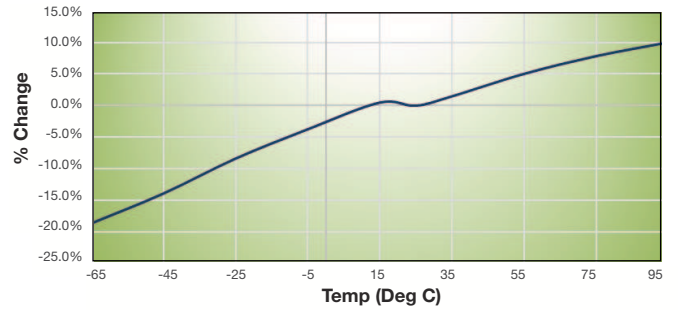
Structural VSWR



Phase Stability vs. Temperature

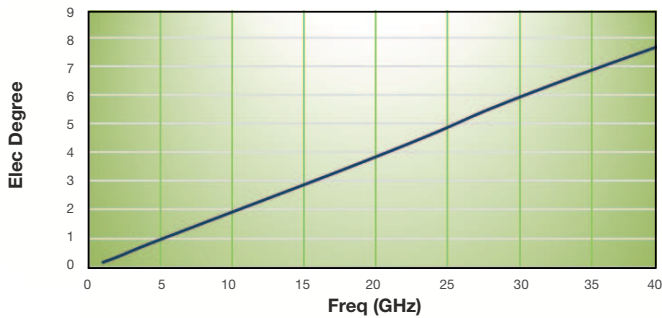


IL Stability vs. Temperature



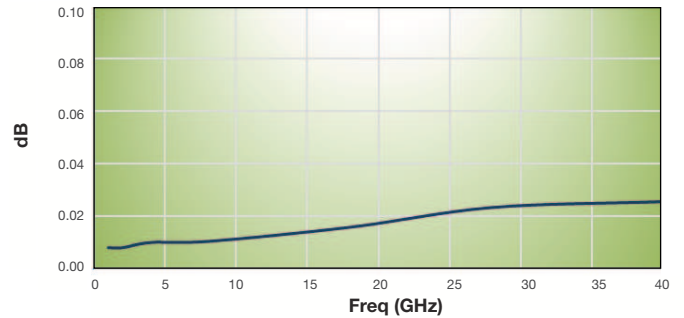
Phase Stability vs. Flexure

Cable is wrapped 360° on a 2" radius mandrel



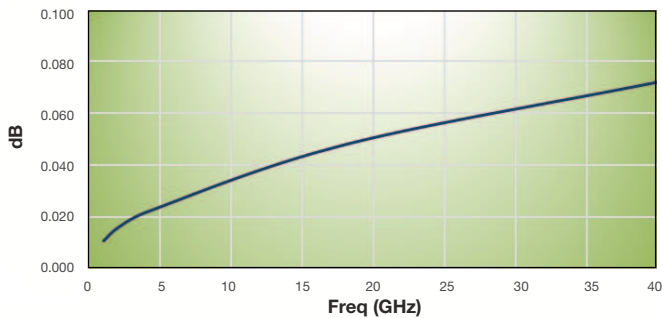
IL Stability vs. Flexure

Cable is wrapped 360° on a 2" radius mandrel



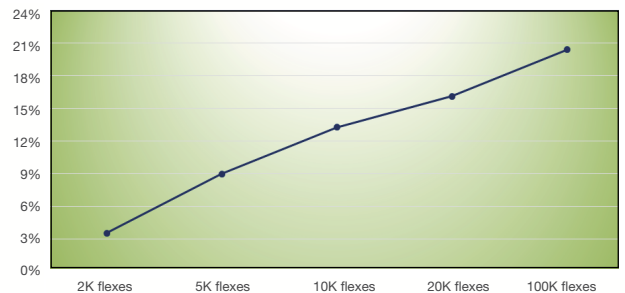
Shake Test

Cable is flexed several times and then hand shaken for 10 sec.



IL Stability vs. Flexure

Cable is flexed +/-90° around a 3.2" OD mandrel (tic-toc test)



Asia Pacific
+86 21 5442 7668
ccs.asia.sales@as.cinch.com

Europe, Middle East & Africa
+44 (0) 1245 342060
CinchConnectivity@eu.cinch.com

North America
+1 507.833.8822
ccsorders@us.cinch.com
belfuse.com/cinch