HP Cable Series



Emerson Network Power Connectivity Solutions offers the Semflex HP test cable assembly series. The HP Series has a long history in the military and aerospace industries as the interconnect cable of choice in ground, sea, and airborne systems. This series also excels in test and measurement applications offering high performance, flexibility, and a wide range of precision connectors for applications up to 50 GHz. The triple shield construction provides connector attachments that exceed *70 lbs of pull off force, (* HP 190 with SMA connector) and harsh handling (i.e. radius torque, continuous flexing, or wide temperature extremes).

Applications

- RF and MW applications requiring interconnects for
- Ground, Sea and airborne systems
- Extreme electrical requirements
- Extreme mechanical conditions
- Precision flexible test leads
- High frequency applications

Cable Construction

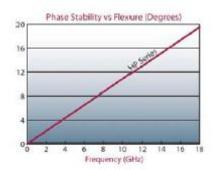
The HP Series uses silver plated copper inner and outer conductors for low attenuation. The microporous PTFE dielectrics and FEP jackets provide consistent performance over temperature extremes with better phase performance over temperature compared to solid PTFE dielectrics. Shielding effectiveness >90 dB results from a triple shield construction of woven flat braid, foil, and round braid. This construction also provides substantially better radial torque resistance and connector pull off strength than helically wrapped braid designs.



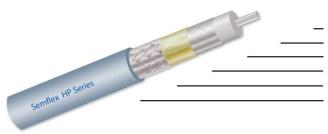


Cable Cross Reference

Semflex	Replacement
HP 120	IW I 40x, UFB142, LL120
HP 160	IW 150x
HP 190	IW 180x, UFB 197 C, UFB 205 A LL 142 (Triple Shield)
HP 305	LL 392-2



Phase stability is defined as the change in phase when the cable is bent 360 degrees around its minimum bend radius.



Silver Plated Copper *
Low Density Microporous PTFE
Silver Plated Copper Flat Braid*
Metalized Foil
Silver Plated Copper Round Braid*
Extruded FEP Jacket - Blue Tint

* Silver Plating per ASTM-B-289

