### HPI Series 160 Group



#### **Emerson Network Power Connectivity Solutions**

offers the **Semflex** HPI 160 test cable assembly series. This line incorporates high performance HPI160 cable with equally high performance connectors providing excellent test cables for a wide range of applications up to 40 GHz. These assemblies feature low loss triple shielded cable with a standard FEP Teflon® jacket and optional polyurethane, ruggedized and armored jackets. The triple shielded construction of these cables give outstanding shielding effectiveness of greater than -90dB at 18GHz. The precision stainless steel connector designs include: 2.4mm, 2.92mm, 3.5mm and SMA, in which both jack and plugs, right angles, bulkheads and four hole flangs are available. All the connector interfaces are designed to meet MIL-C-39012, MIL-STD-348a or applicable industry specifications. These cable assemblies feature low loss, excellent VSWR, and good phase stability over a wide range of applications up to 40 GHz.

#### **Key Features & Benefits**

- Precision stainless steel connectors
- Low loss PTFE tape Dielectric
- FEP outer jacket; options include polyurethane, armor, ruggedized jacketing
- Triple shielded for >-90 dB leakage at 18GHz

#### **Applications**

- High frequency (40 GHz)
- High performance, low loss, RF signal distribution
- High temperature (+200° C)
- Low temperature(-65°C)

#### **Available Connectors**

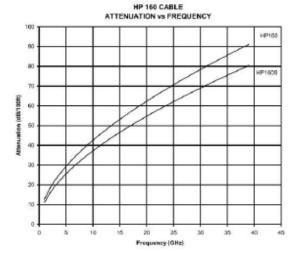
- SMA, 3.5mm, 2.4mm, 2.92mm
- Straight, right angle, swept right angle male; straight, flange and bulkhead female





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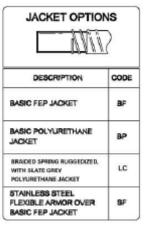
- 1. Center conductor: Silver plated copper \*
- 2. Dielectric: Microporous PTFE tape
- 3. Outer conductor: Silver plated copper flat braid\*
- 4. Shield interlayer: Metalized tape
- 5. Braid: Silver plated copper round braid \*
- Jacket options: Extruded FEP, polyurethane, armor, ruggedized (polyurethane & FEP)
   \* Silver plating per ASTM-B-298

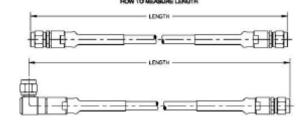


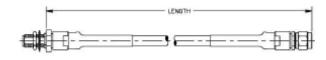
HP160S is solid center conductor HP160 is stranded center conductor

		CON	NECTOR CO	DES		
CONNECTOR	MALE			FEMALE		
	STR	RA	SWEPT RA	STR	BULKHD	FLANGE
SMA	81	82	S6	83	84	Sõ
24MM	Z1	72	28	23	74	75
2.92MM	X1	X2	X8	ХЗ	X4	Х5
3.5MM	M1	M2	MB	M3	M4	M5

CENTER CONDUCTOR	
STYLE	CODE
SOLID WIRE	s
** BASIC STRANDED WIRE	В











1 6 CABLE OPTION

S CENTER CONDUCTOR

CONNECTOR

LENGTH (INCHES)

FOR EXAMPLE:

SMA STRAIGHT MALE TO SMA STRAIGHT FEMALE, BASIC FEP JACKET, 36 INCHES LONG. NOTE: USE LEADING ZEROS WHEN SPECIFYING LENGTH.

PART NUMBER IS:

51

16

BF

5

83

0036

**Additional Specifications** 

Additional Specifications			
Assemby			
Connectors	SMA, 3.5mm, 2.4mm, 2.92mm, straight, right angle, swept right angle male; straight, flange and bulkhead female		
Cable size	.160 inches, nominal outer diameter (FEP)		
Standard Lengths			
Electricals			
Velocity of Propagation	76%		
RF Leakage Min. @ 18GHz	-90 dB/ft		
Impedance	50 Nominal		
Capacitance	27 pF/ft 88.58 pF/m		
Delay	1.34 ns/ft 4.40 ns/m		
Breakdown Voltage	>11kV		
Phase Stability vs. Flexure	<.003 deg (deg of bend per GHz)		
Mechanical/ Environmental			
Nominal Diameter	0.160 inches		
Minimum Bend Radius	.7 inches 1.77 cm		
Temperature	-65 °C to + 200°C		
Weight	0.04 lb./ft 59.44g/m		
Materials and Finishes Connector			
Body	Stainless Steel		
Nut	Stainless Steel		
Gasket	Silicon Rubber		
Contact	BeCu / Gold plated		
Insulator	PTFE		
Materials and Finishes Cable			
Cable Jacket	FEP		
Outer Shield	Silver Copper		
Inter Shield	Aluminum Polymer		
Inter Conductor	Silver Copper		
Dielectric	Micro-porous PTFE		
Center Conductor	Silver Copper		

## AMEYA360 Components Supply Platform

#### **Authorized Distribution Brand:**

























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