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HPI Series
Flexible Test Cable Assemblies

Features

- Best combination of price and performance
- Uses high performance HP190 cable
- Built with stranded center conductor and polyurethane jacket to increase flexibility
- 18 GHz operation
- Passivated stainless steel M39012 compliant interfaces
- Standard lengths stocked by distributors
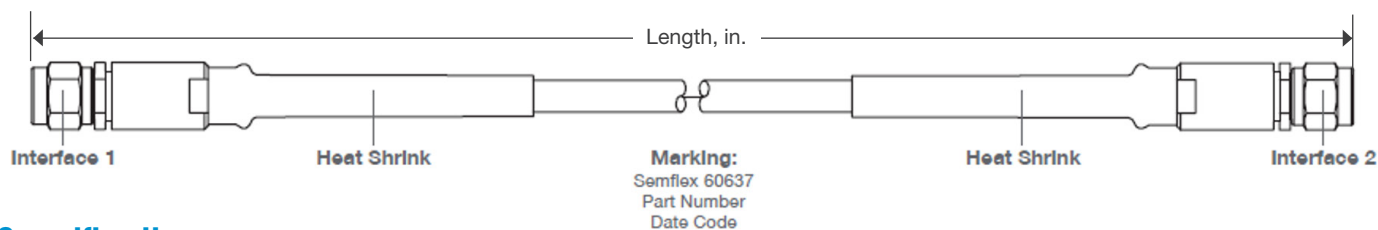- Custom Lengths available

Applications

- High end test laboratories
- Production test setups
- Production use

Table 1

Standard Part Numbers Available Through Franchised Distributors

Part Number	Series	Length	Description	Insertion Loss max. @ 18GHz
S119BPBS10012	HPI	12 in.	Polyurethane jacket, Stranded, SMA Straight Male to SMA Straight Male	0.67dB
S119BPBS10024	HPI	24 in.	Polyurethane jacket, Stranded, SMA Straight Male to SMA Straight Male	1.08dB
S119BPBS10036	HPI	36 in.	Polyurethane jacket, Stranded, SMA Straight Male to SMA Straight Male	1.49dB
S119BPBS10048	HPI	48 in.	Polyurethane jacket, Stranded, SMA Straight Male to SMA Straight Male	1.91dB
S119BPBS10060	HPI	60 in.	Polyurethane jacket, Stranded, SMA Straight Male to SMA Straight Male	2.32dB

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Length, in.

Interface 1   Heat Shrink   Marking: Heat Shrink   Interface 2
Semflex 60637
Part Number
Date Code

Specifications

Electrical

Frequency of Operation	DC-18 GHz
Impedance	50Ω (Nominal)
VSWR	1.25:1 (max.) for parts listed in table 1, see **table 2** for other configurations
Insertion loss	See table 1 for standard lengths

Material and Finish

Connector Body and Coupling Nut	Passivated stainless steel
Connector Contacts	Gold plated beryllium copper
Cable	HP190 with stranded center conductor and polyurethane jacket
Workmanship	Class 2 per IPC/WHMA-A-620

Mechanical

Length Tolerance	-0.0 / +0.5" for parts listed in table 1
Durability	500 cycles (min.)
Inside min Bend Radius	2.8" min

Environmental

Operating Temperature	-55°C to 80°C

Custom Part Number Creation

XX **19BPB** **XX** **XXXX**

Connector 1
Configuration Code

Length
In inches
eg. 0012 = 12in

Connector 2
Configuration Code
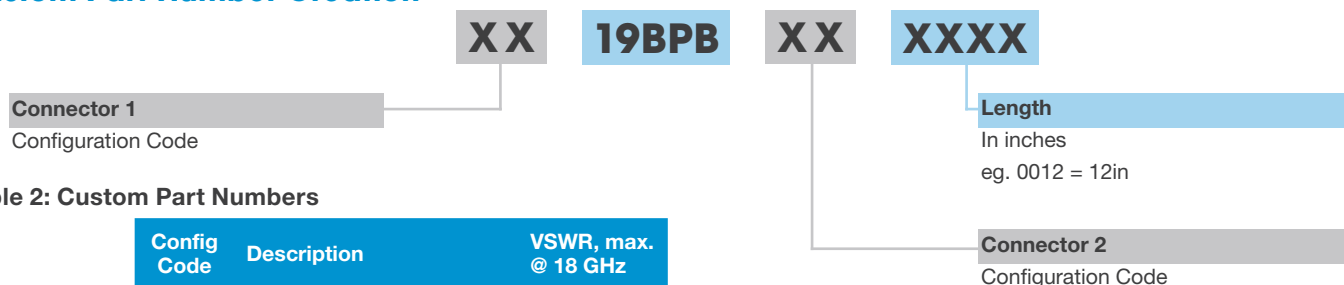
Table 2: Custom Part Numbers

Config Code	Description	VSWR, max. @ 18 GHz
S1	SMA Straight Male	1.25
S2	SMA Right Angle Male	1.30
S3	SMA Straight Female	1.25
N1	N Straight Male	1.30
N2	N Right Angle Male	1.30
N3	N Straight Female	1.30
T1	TNC Straight Male	1.30
T2	TNC Right Angle Male	1.30
T3	TNC Straight Female	1.30

Connector 1 → Connector Selection Order → Connector 2

Full part number configurator is avaliable in the Semflex Catalog, pages 4-5

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