

# Semflex Microwave Solutions™

## 19SQC Cable Assemblies

Space Qualified Series

### Features & Benefits

- Best Combination of Price & Performance
- Uses High Performance HP190S Cable
- Built with Solid Center Conductor & FEP Jacket
- 26 GHz Operation
- Passivated Stainless Steel M39012 Compliant Interfaces
- Standard Lengths Stocked by Distributors
- Custom Lengths Available
- Meets NASA Outgassing Requirements

### Applications

- LEO Satellites
- Thermo-vacuum Chambers

### Specifications

#### Electrical

Frequency of Operation	DC ~ 26 GHz
Impedance	50 $\Omega$ (Nominal)
VSWR	1.25:1 or 1.30:1
Insertion Loss	<a href="http://cinch.com/design-tools/interactive-attenuation-calculator">cinch.com/design-tools/interactive-attenuation-calculator</a>

#### Material and Finish

Connector Body & Coupling Nut	Passivated Stainless Steel
Connector Contacts	Gold Plated Beryllium Copper
Cable	HP190S with Solid Center Conductor & FEP Jacket
Workmanship	Class 3 per IPC / WHMA-A-620
Solder	Sn63 / Pb37
Outgassing	All Materials TML< 1%, CVCM< 0.1%, per ASTM E595

#### Mechanical

Length Tolerance	-0.0 / +0.5 in for Lengths Up to 120 in
Durability	500 Cycles (min.)
Inside min Bend Radius	1.1 in min

#### Environmental

Operating Temperature	-55°C ~ 145°C
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Ordering Information

S1S2-19SQC-0012

Connector 1 Configuration Code

S1 = SMA Straight Male, 1.25 VSWR, max. @ 26 GHz

S2 = SMA Right Angle Male, 1.3 VSWR, max. @ 26 GHz

Connector 2 Configuration Code

S1 = SMA Straight Male, 1.25 VSWR, max. @ 26 GHz

S2 = SMA Right Angle Male, 1.3\* VSWR, max. @ 26 GHz

Cable Indicator

19 = HP190S Cable

Cable Length

0012 = 12 in

(Enter cable length in inches.

Custom lengths available, min. 6 in.)

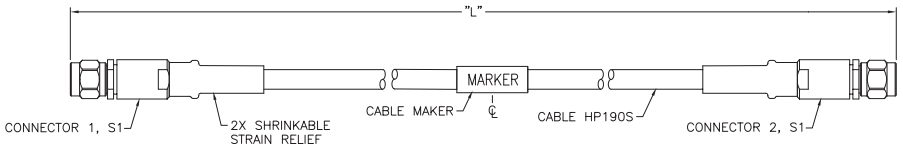
Space Qualified Cable

SQC

\* For S2S2-19SQC-xxxx configurations the VSWR is 1.35 max. @ 26 GHz.

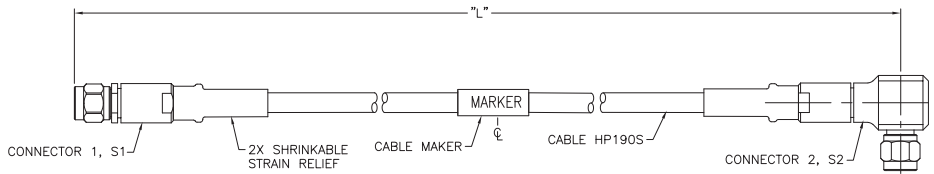
Standard cable length part numbers available through distribution

SMA Straight Male to SMA Straight Male



Part Number	Connector 1	Connector 2	Cable Type	Length
S1S1-19SQC-0012	SMA Straight Male	SMA Straight Male	HP190S	12 in
S1S1-19SQC-0018	SMA Straight Male	SMA Straight Male	HP190S	18 in
S1S1-19SQC-0024	SMA Straight Male	SMA Straight Male	HP190S	24 in
S1S1-19SQC-0036	SMA Straight Male	SMA Straight Male	HP190S	36 in

SMA Straight Male to SMA Right Angle Male



Part Number	Connector 1	Connector 2	Cable Type	Length
S1S2-19SQC-0012	SMA Straight Male	SMA Right Angle Male	HP190S	12 in
S1S2-19SQC-0018	SMA Straight Male	SMA Right Angle Male	HP190S	18 in
S1S2-19SQC-0024	SMA Straight Male	SMA Right Angle Male	HP190S	24 in
S1S2-19SQC-0036	SMA Straight Male	SMA Right Angle Male	HP190S	36 in



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