



16SQC Cable Assemblies

QPS Qualified Parts for Space Series



- Best Combination of Price & Performance
- Uses High Performance HP160S Cable
- Built with Solid Center Conductor & FEP Jacket
- 40 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

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Frequency of Operation	DC ~ 40 GHz
Impedance	50Ω (Nominal)
VSWR	1.4 to 1.5
Insertion Loss	<u>cinch.com/design-tools/interactive-attenuation-calculator</u>

Material and Finish

Connector Body & Coupling Nut	lut Passivated Stainless Steel		
Connector Contacts Gold Plated Beryllium Copper			
Cable	HP160S 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		

Mechanial

Length Tolerance	-0.0 / +0.5 in for Lengths Up to 120 in
Durability	500 Cycles (min.)
Inside min Bend Radius	0.9 in min.

Environmental

Operating Temperature	-55°C ~ 145°C

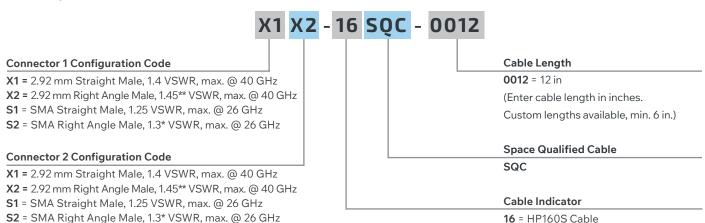




16SQC Cable Assemblies Semflex Microwave Solutions™

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Ordering Information

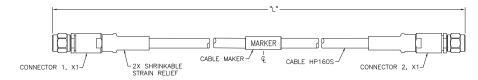


^{*} For S2S2-16SQC-xxxx configurations the VSWR is 1.35 max. @ 26 GHz.

Standard part numbers available through distribution

2.92 mm Straight Male to 2.92 mm Straight Male

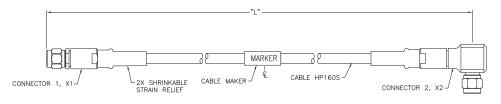




Part Number	Connector 1	Connector 2	Cable Type	Length
X1X1-16SQC-0012	2.92 mm Straight Male	2.92 mm Straight Male	HP160S	12 in
X1X1-16SQC-0018	2.92 mm Straight Male	2.92 mm Straight Male	HP160S	18 in
X1X1-16SQC-0024	2.92 mm Straight Male	2.92 mm Straight Male	HP160S	24 in
X1X1-16SQC-0036	2.92 mm Straight Male	2.92 mm Straight Male	HP160S	36 in

2.92 mm Straight Male to 2.92 mm Right Angle Male





Part Number	Connector 1	Connector 2	Cable Type	Length
X1X2-16SQC-0012	2.92 mm Straight Male	2.92 mm Right Angle Male	HP160S	12 in
X1X2-16SQC-0018	2.92 mm Straight Male	2.92 mm Right Angle Male	HP160S	18 in
X1X2-16SQC-0024	2.92 mm Straight Male	2.92 mm Right Angle Male	HP160S	24 in
X1X2-16SQC-0036	2.92 mm Straight Male	2.92 mm Right Angle Male	HP160S	36 in



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^{**} For X2X2-16SQC-xxxx configurations the VSWR is 1.50 max. @ 40 GHz.