Semflex Microwave Solutions™

16SQC Cable Assemblies

QPS Qualified Parts for Space Series

Features & Benefits

- 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

Electrical

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

Material and Finish

Connector Body & Coupling Nut	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

cinch CONNECTIVITY SOLUTIONS a bel group

cinch.com

Specification subject to change without notice.

Please read our datasheet & drawing disclaimer here.

16SQC Cable Assemblies

QPS Qualified Parts for Space Series

Semflex Microwave Solutions™

Ordering Information

X1 X2 - 16 SQC - 0012

Connector 1 Configuration Code

X1 = 2.92 mm Straight Male, 1.4 VSWR, max. @ 40 GHz
X2 = 2.92 mm Right Angle Male, 1.45** VSWR, max. @ 40 GHz
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

X1 = 2.92 mm Straight Male, 1.4 VSWR, max. @ 40 GHz
X2 = 2.92 mm Right Angle Male, 1.45** VSWR, max. @ 40 GHz
S1 = SMA Straight Male, 1.25 VSWR, max. @ 26 GHz
S2 = SMA Right Angle Male, 1.3* VSWR, max. @ 26 GHz

Cable Length

0012 = 12 in
(Enter cable length in inches.
Custom lengths available, min. 6 in.)

Space Qualified Cable

SQC

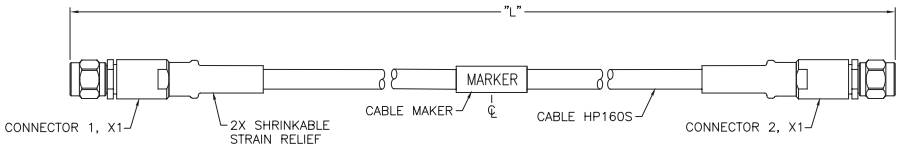
Cable Indicator

16 = HP160S Cable

* For S2S2-16SQC-xxxx configurations the VSWR is 1.35 max. @ 26 GHz.
** For X2X2-16SQC-xxxx configurations the VSWR is 1.50 max. @ 40 GHz.

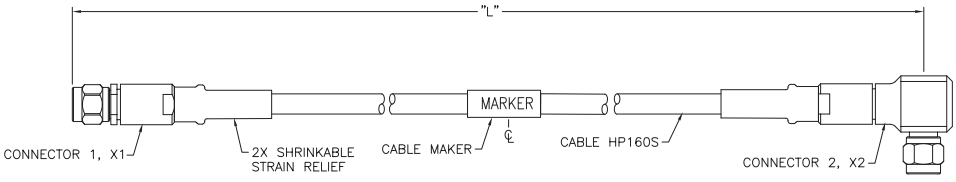
Standard part numbers available through distribution

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

cinch CONNECTIVITY SOLUTIONS a bel group

North America
+1 507.833.8822
ccsorders@us.cinch.com

cinch.com

© 2025 Cinch Connectivity Solutions