

SMA Male to QMA Male Cable Using PE-SR402FL Coax



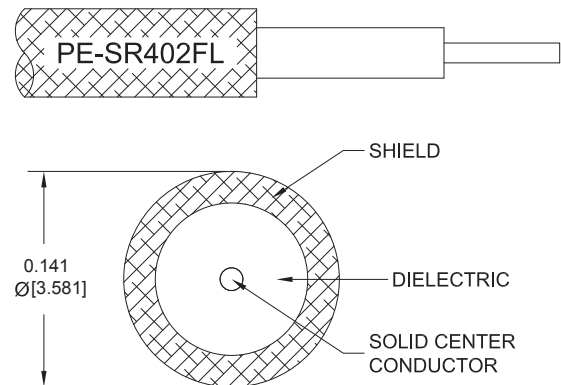
PE3W16372

Configuration

- Connector 1: SMA Male
- Connector 2: QMA Male
- Cable Type: PE-SR402FL
- Coax Flex Type: Formable

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 110 dB
- 69.5% Phase Velocity



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W16372 SMA male to QMA male cable using PE-SR402FL coax is part of our full line of RF components available for same-day shipping. Pasternack's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. This Pasternack SMA to QMA cable assembly has a male to male gender configuration with 50 ohm formable PE-SR402FL coax. The PE3W16372 SMA male to QMA male cable assembly operates to 6 GHz.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
RF Shielding	110			dB
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		7.8 [25.59]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		5.5 [18.04]		Ohms/1000ft [Ohms/Km]
Dielectric Withstanding Voltage (AC)			750	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
			Frequency	500	1000	2500	6000	
PE3W16372	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.12	0.184	0.322	dB/ft	
			0.27	0.4	0.61	1.06	dB/m	
PE3W16372-6	6 inch	Insertion Loss (Typ.)	0.24	0.26	0.3	0.37	dB	0.031
PE3W16372-9	9 inch	Insertion Loss (Typ.)	0.26	0.29	0.34	0.45	dB	0.037
PE3W16372-12	12 inch	Insertion Loss (Typ.)	0.28	0.32	0.39	0.53	dB	0.043
PE3W16372-18	18 inch	Insertion Loss (Typ.)	0.32	0.38	0.48	0.69	dB	0.056
PE3W16372-24	24 inch	Insertion Loss (Typ.)	0.36	0.44	0.57	0.85	dB	0.069

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.1 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.043 pounds
Additional Weight per Inch:	0.00209 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.043 lbs [19.5 g]

Cable

Cable Type	PE-SR402FL
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Outer Conductor 1 Material and Plating	Tinned Copper Braid
Repeated Minimum Bend Radius	0.625 in [15.88 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male	QMA Male
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	
Contact Material and Plating		Brass, Gold
Dielectric Type		PTFE
Body Material and Plating	Stainless Steel, Gold	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Nickel	Brass, Tri-Metal
Hex Size	5/16 inch	
Torque	3 in-lbs 0.34 Nm	
Seal Gasket Material	Silicone	

Environmental Specifications

Operating Range Temperature -40 to +125 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

SMA Male to QMA Male Cable Using PE-SR402FL Coax



PE3W16372

Typical Performance Data

How to Order

Part Number Configuration:

PE3W16372

- xx

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3W16372-12 = 12 inches long cable
PE3W16372-100cm = 100 cm long cable

SMA Male to QMA Male Cable Using PE-SR402FL Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

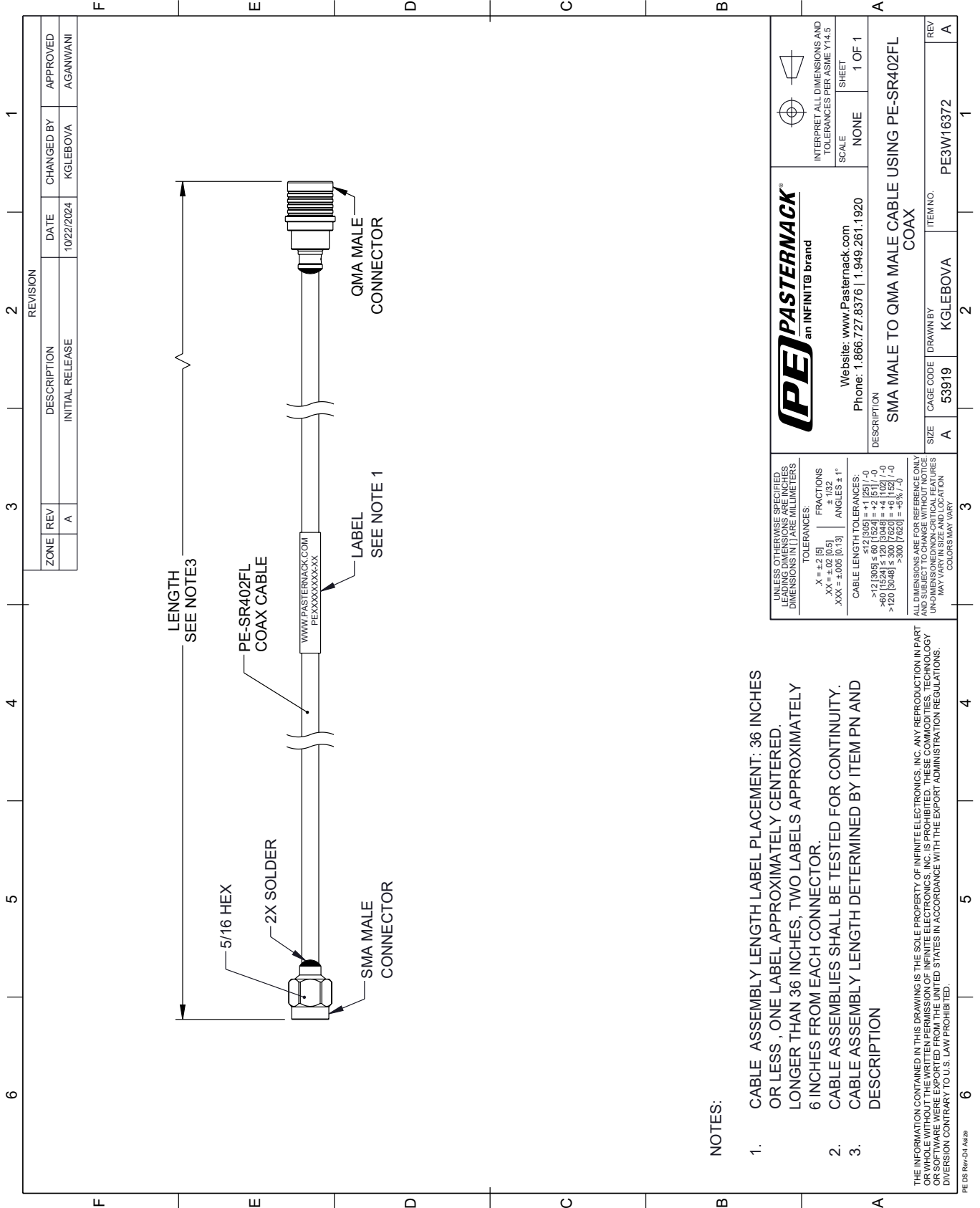
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to QMA Male Cable Using PE-SR402FL Coax PE3W16372](#)

URL: <https://www.pasternack.com/sma-male-to-qma-male-cable-using-pe-sr402fl-pe3w16372-p.aspx>

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PE3W16372 CAD Drawing


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NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION

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	<p>UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.</p> <p>TOLERANCES:</p> <p>.X = +.2 [5] FRACTIONS ± 1/32</p> <p>.XX = ±.02 [0.5] ANGLES ± 1°</p> <p>.XXX = ±.005 [0.13]</p> <p>CABLE LENGTH TOLERANCES:</p> <p>>12 [305] ≤ 60 [1524] = +.2 [5] / -0</p> <p>>60 [1524] ≤ 120 [3048] = +.4 [102] / -0</p> <p>>120 [3048] ≤ 300 [7620] = +.6 [15] / -0</p> <p>ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.</p>
<p>DESCRIPTION: SMA MALE TO QMA MALE CABLE USING PE-SR402FL COAX</p>	
<p>SIZE: A</p> <p>CAGE CODE: 53919</p> <p>DRAWN BY: KGLEBOVA</p> <p>ITEM NO.: PE3W16372</p>	<p>REV: A</p>