



SMA Male to QMA Male Cable Using PE-SR402FL Coax

TECHNICAL DATA SHEET

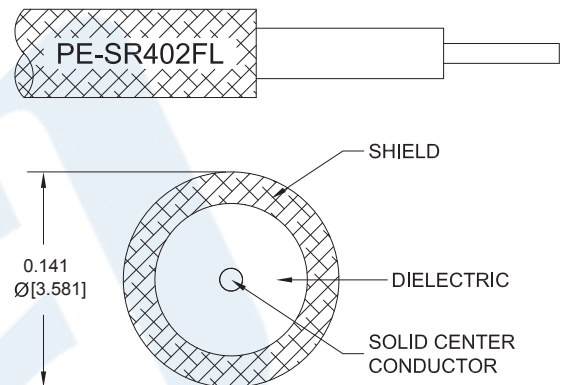
PE3W11801

Configuration

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

Features

- Max Frequency 18 GHz
- Shielding Effectivity > 110 dB
- 69.5% Phase Velocity



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W11801 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 PE3W11801 SMA male to QMA male cable assembly operates to 18 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.

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 PE3W11801](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.38:1	
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]		Ω /1000ft [Ω /Km]
DC Resistance Outer Conductor		5.5 [18.04]		Ω /1000ft [Ω /Km]

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency	1000	2000	4500	9000	#####	
PE3W11801	Custom Lengths Available	Insertion Loss (Typ.)	0.12	0.16	0.26	0.41	0.65	dB/ft	
			0.4	0.53	0.86	1.35	2.14	dB/m	
PE3W11801-6	6 inch	Insertion Loss (Typ.)	0.26	0.28	0.33	0.41	0.53	dB	0.022
PE3W11801-9	9 inch	Insertion Loss (Typ.)	0.29	0.32	0.4	0.51	0.69	dB	0.028
PE3W11801-12	12 inch	Insertion Loss (Typ.)	0.32	0.36	0.46	0.61	0.85	dB	0.034
PE3W11801-18	18 inch	Insertion Loss (Typ.)	0.38	0.44	0.59	0.82	1.18	dB	0.047
PE3W11801-24	24 inch	Insertion Loss (Typ.)	0.44	0.52	0.72	1.02	1.5	dB	0.06

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:	0.03 pounds
Additional Weight per Inch:	0.034 pounds

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.034 lbs [15.42 g]

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Cable

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

Connectors

Description	Connector 1	Connector 2
Type	SMA Male Threaded	QMA Male Push-On
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	100
Contact Material and Plating		Beryllium Copper, Gold over Nickel
Contact Plating Specification		1.27 µm minimum
Dielectric Type		PTFE
Outer Conductor Material and Plating		Spring Bronze, Tri-Metal
Body Material and Plating	Stainless Steel, Gold	Brass, Gold over Nickel
Body Plating Specification		0.15 µm minimum
Coupling Nut Material and Plating	Brass, Nickel	
Hex Size	5/16 inch	
Torque	3 in-lbs [0.34 Nm]	

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

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

Plotted and Other Data

Notes:

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TECHNICAL DATA SHEET

PE3W11801

How to Order

Part Number Configuration:

PE3W11801

- **xx**

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Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3W11801-12 = 12 inches long cable
PE3W11801-100cm = 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 PE3W11801](#)

URL: <https://www.pasternack.com/sma-male-qma-male-pe-sr402fl-cable-assembly-pe3w11801-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

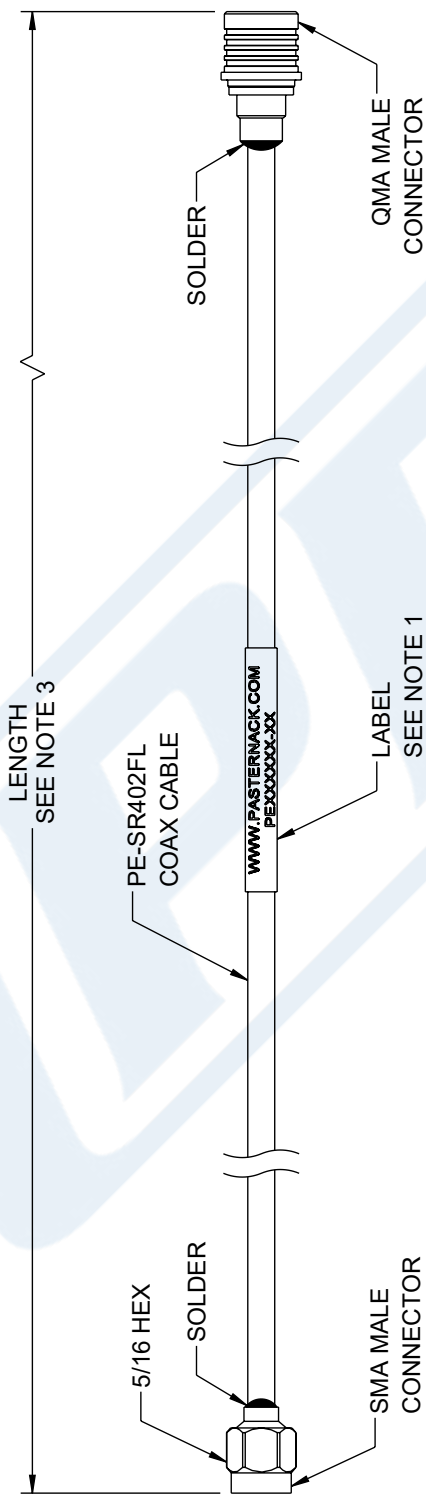
PE3W11801 CAD Drawing

SMA Male to QMA Male Cable Using PE-SR402FL Coax

F E D C B A

1 2 3 4 5 6

ZONE		REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A		INITIAL RELEASE	10/17/2023	HBAKKE	AGANWANI



- NOTES:**
- 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.
 - CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
 - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

UNLESS OTHERWISE SPECIFIED LENGTH DIMENSIONS ARE IN INCHES DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS	TOLERANCES: X = ±.2 [5] XX = ±.02 [0.5] XXX = ±.005 [0.13]	FRACTIONS ±.1/32 ANGLES ± 1°
CABLE LENGTH TOLERANCES: ≤ 12 [305] = ±.1 [2.5] / -0 ≤ 120 [3048] = ±.4 [10.2] / -0 ≤ 300 [7620] = ±.6 [15.2] / -0 > 300 [7620] = ±.9% / -0		

ALL DIMENSIONS ARE FOR REFERENCE ONLY
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ON CRITICAL FEATURES
MAY VARY IN SIZE AND LOCATION
COLORS MAY VARY

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Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
SCALE NONE
SHEET 1 OF 1

DESCRIPTION
SMA MALE TO QMA MALE CABLE USING PE-SR402FL COAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	HBAKKE	PE3W11801	A

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PE DS Rev-D4 Asize