

SMA Male Right Angle to QMA Male Cable Using RG400 Coax



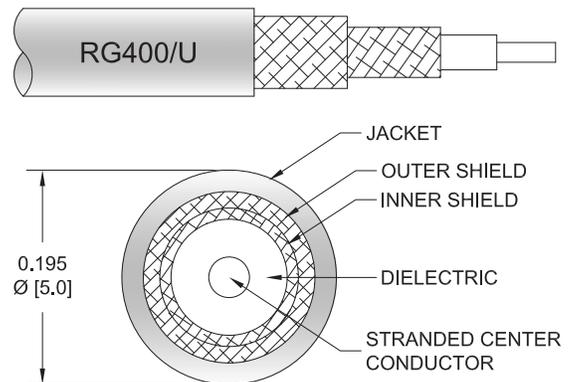
PE3W14466

Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: QMA Male
- Cable Type: RG400
- Coax Flex Type: Flexible

Features

- Max Frequency 6 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W14466 SMA male right angle to QMA male cable using RG400 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack SMA to QMA cable assembly has a male to male gender configuration with 50 ohm flexible RG400 coax. The PE3W14466 SMA male to QMA male cable assembly operates to 6 GHz. The right angle SMA interface on the RG400 cable allows for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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		70		%
Capacitance		32 [104.99]		pF/ft [pF/m]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
			Frequency	500	1000	2500	6000	
PE3W14466	Custom Lengths Available	Insertion Loss (Typ.)	0.099	0.147	0.238	0.397	dB/ft	
			0.33	0.49	0.79	1.31	dB/m	
PE3W14466-6	6 In	Insertion Loss (Typ.)	0.35	0.38	0.42	0.5	dB	0.046
PE3W14466-12	12 In	Insertion Loss (Typ.)	0.4	0.45	0.54	0.7	dB	0.067
PE3W14466-24	24 In	Insertion Loss (Typ.)	0.5	0.6	0.78	1.1	dB	0.109
PE3W14466-36	36 In	Insertion Loss (Typ.)	0.6	0.75	1.02	1.5	dB	0.151
PE3W14466-72	72 In	Insertion Loss (Typ.)	0.9	1.19	1.73	2.69	dB	0.277

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:	0.2 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.067 pounds
Additional Weight per Inch:	0.0035 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.067 lbs [30.39 g]

Cable

Cable Type	RG400
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	2
Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.195 in [4.95 mm]
Repeated Minimum Bend Radius	1 in [25.4 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	QMA Male
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Brass, Gold	
Contact Plating Specification	50 µin minimum	
Dielectric Type	PTFE	
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum	
Hex Size	16-May inch	
Torque	3 in-lbs 0.34 Nm	

Environmental Specifications

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

Plotted and Other Data

Notes:

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PE3W14466

Typical Performance Data

How to Order

Part Number Configuration:

PE3W14466

- **xx**

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

Example: PE3W14466-12 = 12 inches long cable
PE3W14466-100cm = 100 cm long cable

SMA Male Right Angle to QMA Male Cable Using RG400 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.

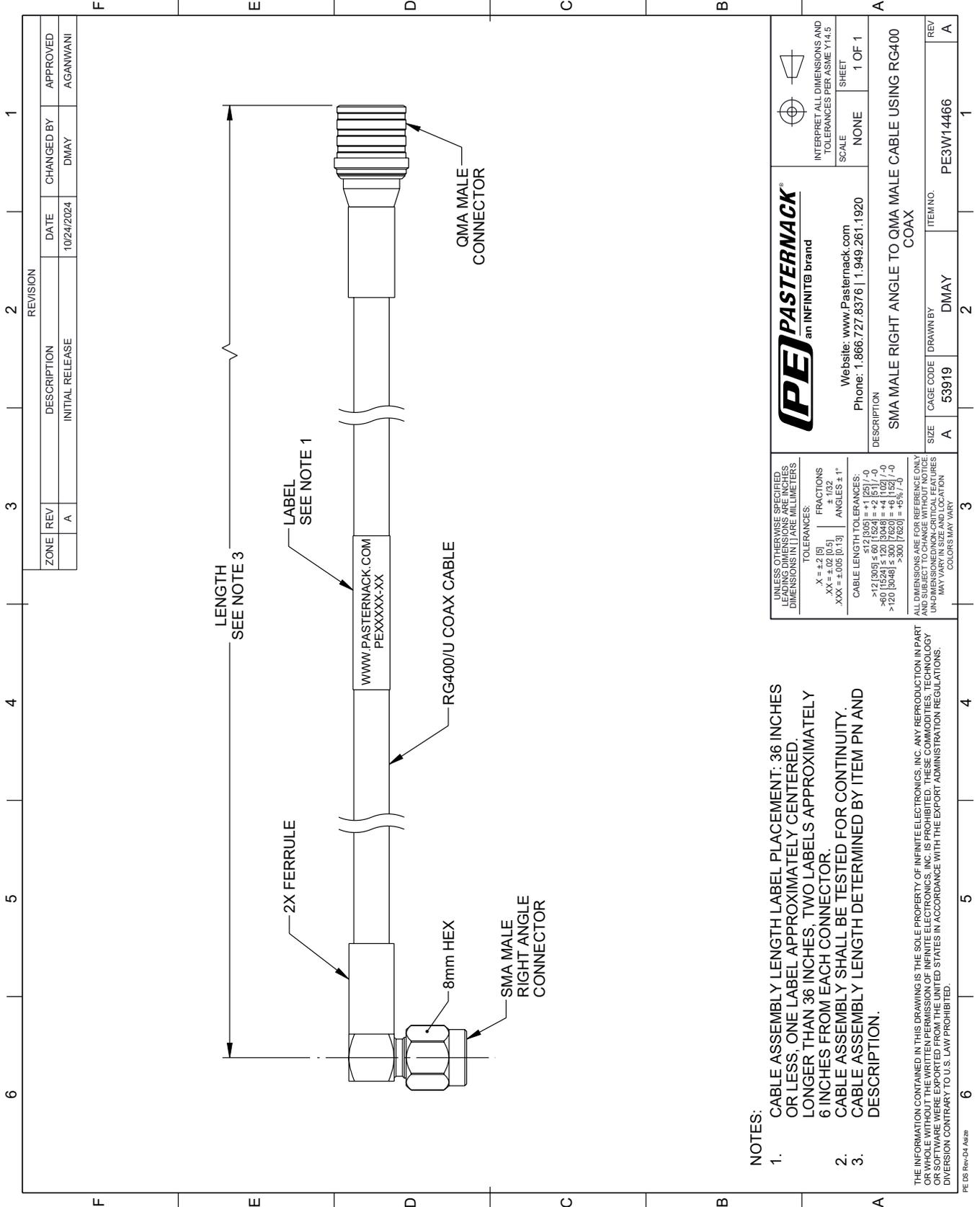
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle to QMA Male Cable Using RG400 Coax PE3W14466](#)

URL: <https://www.pasternack.com/sma-male-right-angle-to-qma-male-cable-using-rg400-pe3w14466-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3W14466 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 ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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PE DS Rev-D4 Add2

REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV			
	A	10/24/2024	DMAY	AGANWANI
DESCRIPTION				
INITIAL RELEASE				

<p>PASTERNAK an INFINITE brand</p>	<p>Website: www.Pasternack.com</p> <p>Phone: 1.866.727.8376 1.949.261.1920</p>	<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SCALE: NONE</p> <p>SHEET: 1 OF 1</p>
	<p>DESCRIPTION: SMA MALE RIGHT ANGLE TO QMA MALE CABLE USING RG400 COAX</p>	
<p>SIZE: A</p>	<p>CAGE CODE: 53919</p> <p>DRAWN BY: DMAY</p>	<p>ITEM NO.: PE3W14466</p> <p>REV: A</p>

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES: X = ±.2 [5] FRACTIONS ±.132 ±.102 [0.5] ANGLES ± 1° .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES: >12 [305] ≤ 60 [1524] = ±.1 [25] / -0 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0 >120 [3048] ≤ 300 [7620] = ±.6 [152] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONS/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.