



SMA Male to Push-On SMA Male Precision Cable
48 Inch Length Using 160 Series Coax, RoHS

TECHNICAL DATA SHEET

PE311-48

Configuration

Connector 1	SMA Male
Connector 2	SMA Male
Cable Type	160 Series

Electrical Specifications

Frequency Range	DC to 18 GHz
Impedance	50 Ohms
Maximum VSWR	1.38:1
Velocity of Propagation	70 %
Dielectric Withstanding Voltage (AC)	1,000 Vrms

Typical Performance by Frequency

Frequency 1

Frequency	2 GHz
VSWR	1.09:1
Return Loss	27 dB
Insertion Loss	0.35 dB/ft [1.15 dB/m]

Frequency 2

Frequency	6 GHz
VSWR	1.12:1
Return Loss	25 dB
Insertion Loss	0.6 dB/ft [1.97 dB/m]

Frequency 3

Frequency	8 GHz
VSWR	1.17:1
Return Loss	22 dB
Insertion Loss	0.7 dB/ft [2.3 dB/m]

Frequency 4

Frequency	18 GHz
VSWR	1.38:1
Return Loss	16 dB
Insertion Loss	1.175 dB/ft [3.85 dB/m]

Mechanical Specifications

Temperature

Temperature Operating Range	-55 to +125 deg C
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Size

Length	48 in [121.92 cm]
Diameter	0.17 in [4.32 mm]
Weight	0.038 lbs [17.24 g]
Cable Color	Blue

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 Push-On SMA Male Precision Cable 48 Inch Length Using 160 Series Coax, RoHS PE311-48](#)



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One Time Minimum Bend Radius

1 in [25.4 mm]

Cable

Cable Type

160 Series

No of Shields

3

Dielectric Type

PTFE

Jacket Material

FEP

Jacket Diameter

0.163 in [4.14 mm]

Connector 1

Type

SMA Male

Configuration

Straight

Mating Cycles

500

Inner Conductor Material and Plating

Gold

Coupling Nut Material and Plating

Passivated Stainless Steel

Hex Size

5/16 in.

Torque

8 in-lbs [0.9 Nm]

Body Material and Plating

Gold

Dielectric Type

PTFE

Connector 2

Type

SMA Male

Configuration

Straight

Mating Cycles

500

Inner Conductor Material and Plating

Gold

Outer Conductor Material and Plating

Gold

Body Material and Plating

Gold

Dielectric Type

PTFE

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant

Yes

REACH Compliant

12/19/2011

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Plotted and Other Data

Notes:

- Values at +25 °C, sea level

SMA Male to Push-On SMA Male Precision Cable 48 Inch Length Using 160 Series Coax, RoHS from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

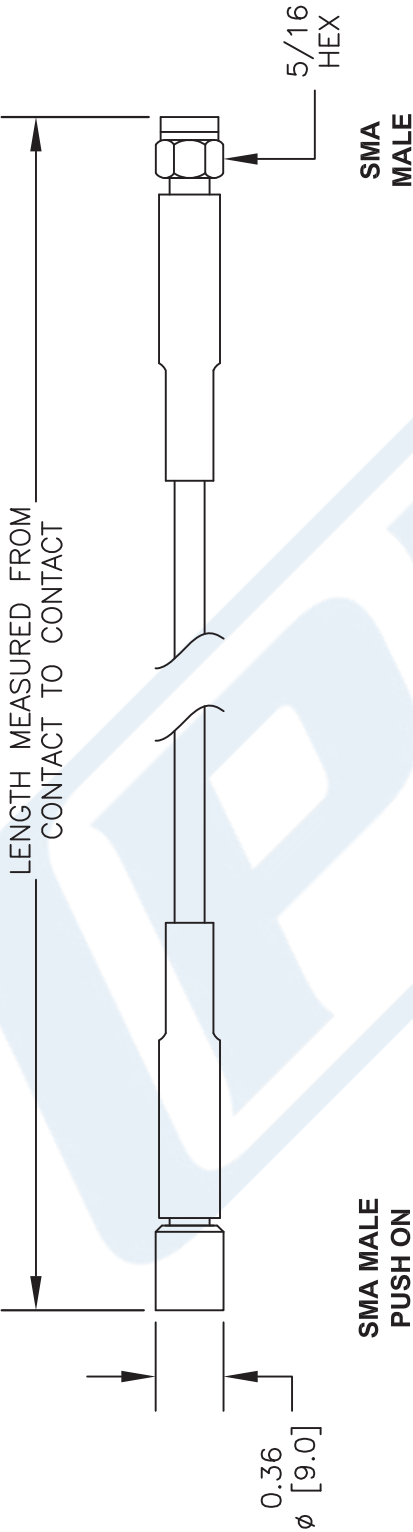
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to Push-On SMA Male Precision Cable 48 Inch Length Using 160 Series Coax, RoHS PE311-48](http://www.pasternack.com/sma-male-sma-male-300-series-cable-assembly-pe311-48-p.aspx)

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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.

PE311-48 CAD Drawing

SMA Male to Push-On SMA Male Precision Cable 48 Inch
Length Using 160 Series Coax, RoHS



How To Order				Part # Ext.		Length In Inches		Part # Ext.		Length In Centimeters	
Part Number Configuration		Examples		-12	12"	-25CM	25Cm	-25CM	25Cm	-50CM	50Cm
PE3	zzz	yy	- xx uu	-24	24"	-50CM	50Cm	-75CM	75Cm	-100CM	100Cm
00 - 99999				-36	36"	-75CM	75Cm	-125CM	125Cm	-xxCM	Custom Length
LF = RoHS Compliant		CM = Centimeters		-48	48"	-100CM	100Cm				
< Blank > = Standard		< Blank > = Inches		-60	60"	-125CM	125Cm				
Note: LF applies only to RF cables		Length		-XX	Custom Length	-xxCM	Custom Length				

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NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].
4. LENGTH TOLERANCE IS ± 1.5% OR 3/8", WHICHEVER IS GREATER.

DWG TITLE
PE311

FSCM NO. 53919

CAD FILE 120711-C

SCALE N/A

SIZE A

2233