



SMA Male to Push-On SMA Male Precision  
Cable Using 160 Series Coax

TECHNICAL DATA SHEET

PE311

**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**

Diameter	0.356 in [9.04 mm]
Weight	0.038 lbs [17.24 g]
Cable Color	Blue
One Time Minimum Bend Radius	1 in [25.4 mm]

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 Using 160 Series Coax PE311](#)



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**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](http://www.Pasternack.com) for current document)

RoHS Compliant	Yes
REACH Compliant	06/20/2011

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#### Plotted and Other Data

Notes:

- Values at +25 °C, sea level

SMA Male to Push-On SMA Male Precision Cable Using 160 Series Coax 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.

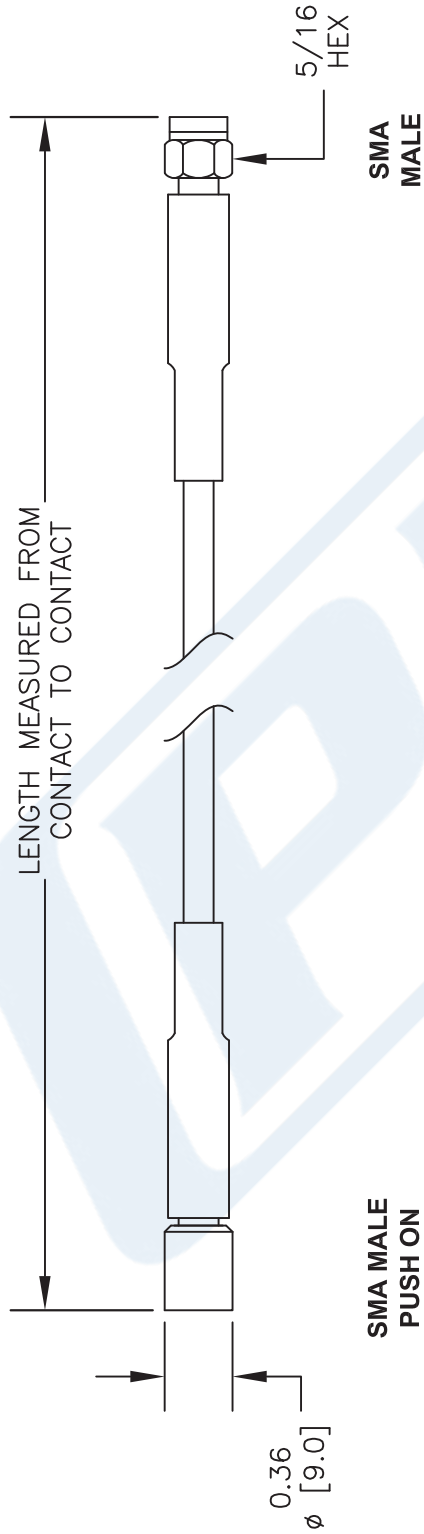
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to Push-On SMA Male Precision Cable Using 160 Series Coax PE311](#)

URL: <http://www.pasternack.com/sma-male-sma-male-300-series-cable-assembly-pe311-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.

# PE311 CAD Drawing

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How To Order		Part # Ext.	Length In Inches	Part # Ext.	Length In Centimeters
<b>Part Number Configuration</b> PE3 [zzz] [yy] [xx] [uu] 00 - 99999 LF = RoHS Compliant < Blank > = Standard Note: LF applies only to RF cables		-12	12"	-25CM	25Cm
Examples PE3000LF-100 PE3000-100 PE3000LF-100CM PE3000-100CM		-24	24"	-50CM	50Cm
CM = Centimeters < Blank > = Inches Length		-36	36"	-75CM	75Cm
		-48	48"	-100CM	100Cm
		-60	60"	-125CM	125Cm
		-XX	Custom Length	-XXCM	Custom Length

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  $\pm 1.5\%$  OR  $3/8"$ , WHICHEVER IS GREATER.

DWG TITLE  
**PE311**

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SCALE N/A

FSCM NO. 53919

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