



SMA Male to QD SMA Male Precision Cable 72 Inch Length Using 160 Series Coax, RoHS

TECHNICAL DATA SHEET

PE312-72

**SMA Male to QD SMA Male Precision Cable 72 Inch Length Using 160 Series Coax, RoHS**

**Configuration**

Connector 1	SMA Male
Connector 1 Specification	MIL-STD-348
Connector 2	SMA Male
Cable Type	160 Series

**Electrical Specifications**

Frequency Range, GHz	DC to 18
Impedance, Ohms	50
Maximum VSWR	1.33:1
Velocity of Propagation, %	70
Dielectric Withstanding Voltage (AC), Vrms	1,000

**Typical Performance by Frequency**

**Frequency 1**

Frequency, GHz	2
VSWR	1.09:1
Return Loss, dB	27
Insertion Loss	0.17 dB/ft [ 0.56 dB/m ]

**Frequency 2**

Frequency, GHz	6
VSWR	1.12:1
Return Loss, dB	25
Insertion Loss	0.42 dB/ft [ 1.38 dB/m ]

**Frequency 3**

Frequency, GHz	8
VSWR	1.12:1
Return Loss, dB	25
Insertion Loss	0.48 dB/ft [ 1.57 dB/m ]

**Frequency 4**

Frequency, GHz	18
VSWR	1.33:1
Return Loss, dB	17
Insertion Loss	0.76 dB/ft [ 2.49 dB/m ]

**Mechanical Specifications**

**Cable Assembly**

Cable Type	160 Series
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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 QD SMA Male Precision Cable 72 Inch Length Using 160 Series Coax, RoHS PE312-72](#)

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.





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**Temperature**

Temperature Operating Range, deg C -55 to +125

**Size**

Length, in [cm] 72 [182.88]  
 Diameter, in [mm] 0.17 [4.32]  
 Weight, lbs [g] 0.038 [17.24]  
 Cable Color Blue  
 One Time Minimum Bend Radius, in [mm] 1 [25.4]

**Cable**

No of Shields 3  
 Dielectric Type PTFE  
 Jacket Material FEP  
 Jacket Diameter, in [mm] 0.163 [4.14]

**Connector 1**

Type SMA Male  
 Configuration Straight  
 Inner Conductor Material and Plating Gold  
 Coupling Nut Material and Plating Passivated Stainless Steel  
 Hex Size, in. 5/16  
 Torque, in-lbs [Nm] 8 [0.9]  
 Body Material and Plating Gold  
 Dielectric Type PTFE

**Connector 2**

Type SMA Male  
 Configuration Straight  
 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

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**Plotted and Other Data**

Notes:

Values at 25 °C, sea level

SMA Male to QD SMA Male Precision Cable 72 Inch Length Using 160 Series Coax, RoHS from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

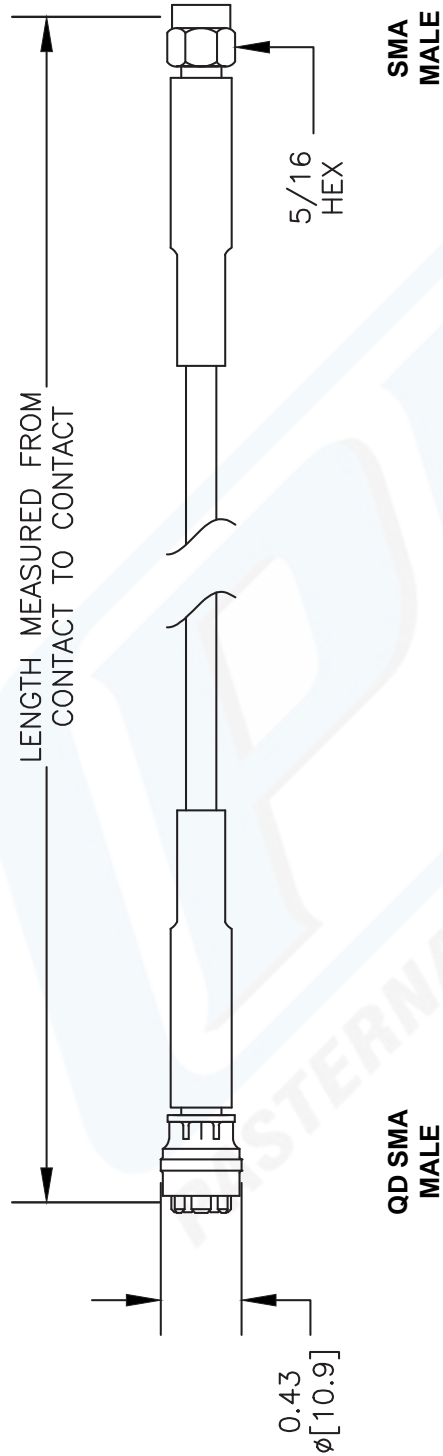
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to QD SMA Male Precision Cable 72 Inch Length Using 160 Series Coax, RoHS PE312-72](http://www.pasternack.com/sma-male-sma-male-300-series-cable-assembly-pe312-72-p.aspx)

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# PE312-72 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
<b>Examples</b> 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 ± 1.5% OR 3/8", WHICHEVER IS GREATER.

DWG TITLE  
**PE312**

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