



N Male to N Male Right Angle Precision Cable  
48 Inch Length Using 160 Series Coax, RoHS

TECHNICAL DATA SHEET

PE303-48

**Configuration**

Connector 1	N Male
Connector 2	N Male Right Angle
Cable Type	160 Series

**Electrical Specifications**

Frequency Range	DC to 18 GHz
Impedance	50 Ohms
Max VSWR	1.4:1
Velocity of Propagation	69.5 %
RF Shielding	100 dB
Max Operating Voltage	1,200 Vrms

**Performance by Frequency**

**Frequency 1**

Frequency	2 GHz
VSWR	1.05:1

**Frequency 2**

Frequency	6 GHz
VSWR	1.14:1

**Frequency 3**

Frequency	10 GHz
VSWR	1.24:1

**Frequency 4**

Frequency	14 GHz
VSWR	1.32:1

**Frequency 5**

Frequency	16 GHz
VSWR	1.33:1

**Frequency 6**

Frequency	18 GHz
VSWR	1.34:1

Electrical Specification Notes:

Short lengths up to 24" long may exhibit VSWR measurements up to 9% higher.

**Mechanical Specifications**

**Temperature**

Temperature Operating Range	-48 to +204 deg C
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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: [N Male to N Male Right Angle Precision Cable 48 Inch Length Using 160 Series Coax, RoHS PE303-48](#)



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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
One Time Minimum Bend Radius	1 in [25.4 mm]

**Cable**

Cable Type	160 Series
Inner Conductor Type	Solid
Cable Inner Conductor	Copper Clad Steel, Silver
No of Shields	3
Dielectric Type	PTFE
Jacket Material	FEP
Jacket Diameter	0.163 in [4.14 mm]

**Connector 1**

Type	N Male
Configuration	Straight
Inner Conductor Material and Plating	Gold
Coupling Nut Material and Plating	Passivated Stainless Steel
Hex Size	13/16 in.
Torque	15 in-lbs [1.7 Nm]
Body Material and Plating	Passivated Stainless Steel
Dielectric Type	PTFE

**Connector 2**

Type	N Male Right Angle
Configuration	Right Angle
Inner Conductor Material and Plating	Gold
Coupling Nut Material and Plating	Passivated Stainless Steel
Hex Size	13/16 in.
Torque	15 in-lbs [1.7 Nm]
Body Material and Plating	Passivated Stainless Steel
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

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TECHNICAL DATA SHEET

PE303-48

**How to Order**

Part Number Configuration:

**PE303**

- **xx**

**uu**

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

Example: PE303-12 = 12 inches long cable  
PE303-100cm = 100 cm long cable

N Male to N Male Right Angle 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.

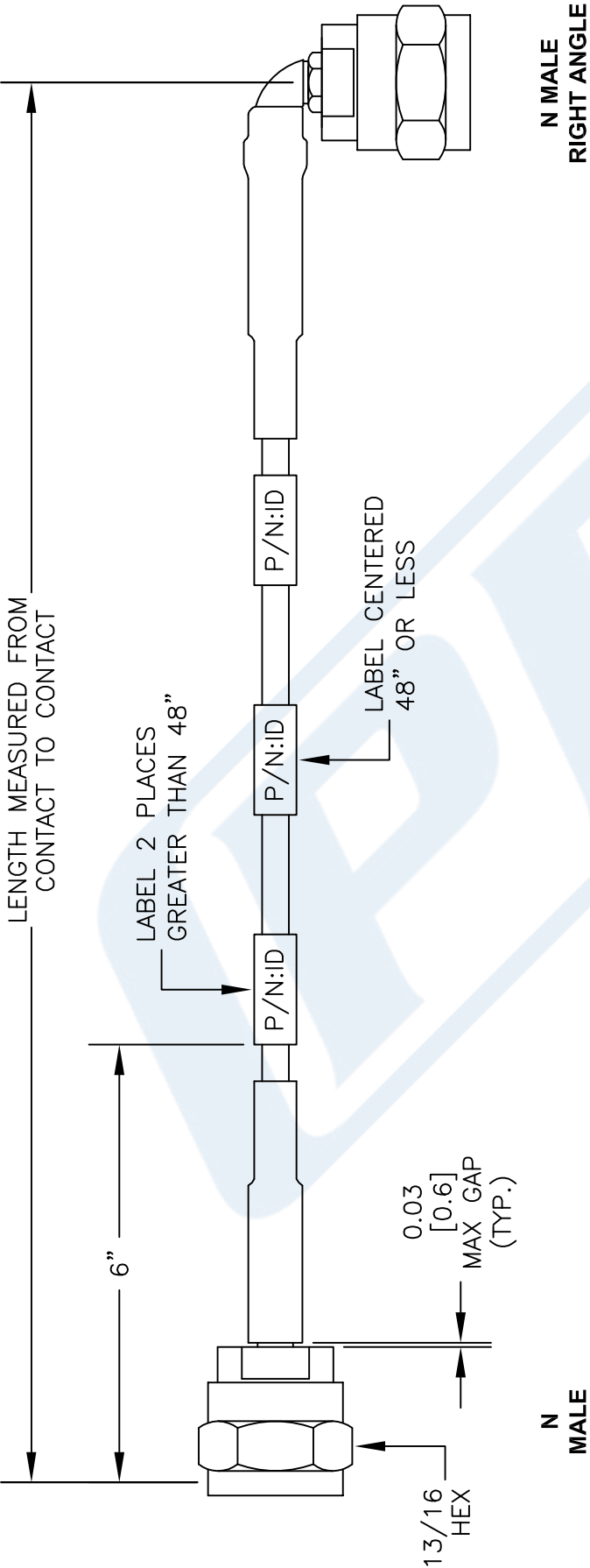
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to N Male Right Angle Precision Cable 48 Inch Length Using 160 Series Coax, RoHS PE303-48](http://www.pasternack.com/n-male-n-male-300-series-cable-assembly-pe303-48-p.aspx)

URL: <http://www.pasternack.com/n-male-n-male-300-series-cable-assembly-pe303-48-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.

PE303-48 CAD Drawing

N Male to N Male Right Angle Precision Cable 48 Inch  
Length Using 160 Series Coax, RoHS



How To Order		Part # Ext.	Length In Inches	Part # Ext.	Length In Centimeters
<div>Part Number Configuration</div> <div>PE3zzzzz YY - xx uu</div> <div>LF = RoHS Compliant &lt; Blank &gt; = Standard</div> <div>Note: LF applies only to RF cables</div>	<div>Examples</div> <div>PE3000LF-100</div> <div>PE3000-100</div> <div>PE3000LF-100CM</div> <div>PE3000-100CM</div>	-12	12"	-25CM	25Cm
		-24	24"	-50CM	50Cm
		-36	36"	-75CM	75Cm
		-48	48"	-100CM	100Cm
		-60	60"	-125CM	125Cm
				-xx	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  
**PE303**

**PE PASTERNAK**  
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FSCM NO. 53919

CAD FILE 111014

SCALE N/A

SIZE A

150