



N Male to N Male Precision Cable Using 160 Series Coax, RoHS

TECHNICAL DATA SHEET

PE302

Configuration

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

Electrical Specifications

Frequency Range	DC to 18 GHz
Impedance	50 Ohms
Maximum VSWR	1.4:1
Velocity of Propagation	69.5 %
RF Shielding	90 dB
Maximum Operating Voltage	1,200 Vrms

Typical Performance by Frequency

Frequency 1

Frequency	2 GHz
VSWR	1.04:1
Insertion Loss,	0.2 dB/ft [0.66 dB/m]

Frequency 2

Frequency	6 GHz
VSWR	1.06:1
Insertion Loss	0.3 dB/ft [0.98 dB/m]

Frequency 3

Frequency	10 GHz
VSWR	1.1:1
Insertion Loss	0.4 dB/ft [1.31 dB/m]

Frequency 4

Frequency	14 GHz
VSWR	1.18:1
Insertion Loss	0.5 dB/ft [1.64 dB/m]

Frequency 5

Frequency	16 GHz
VSWR	1.27:1
Insertion Loss	0.55 dB/ft [1.8 dB/m]

Frequency 6

Frequency	18 GHz
VSWR	1.28:1
Insertion Loss	0.6 dB/ft [1.97 dB/m]

Electrical Specification Notes:

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

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 Precision Cable Using 160 Series Coax, RoHS PE302](#)



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Mechanical Specifications

Cable Assembly

Temperature

Temperature Operating Range -48 to +204 deg C

Size

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

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

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

RoHS Compliant Yes

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Notes:

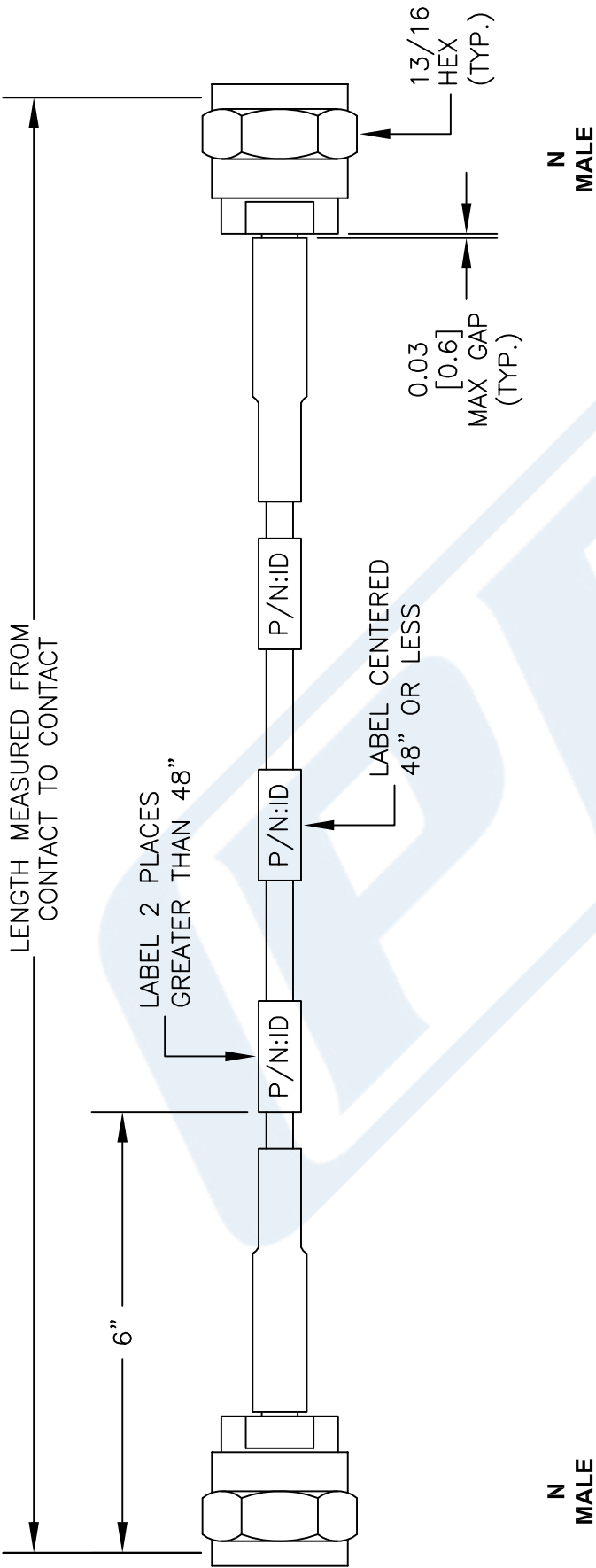
- Values at +25 °C, sea level

N Male to N Male Precision Cable 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 Precision Cable Using 160 Series Coax, RoHS PE302](#)

URL: <http://www.pasternack.com/n-male-n-male-300-series-cable-assembly-pe302-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.



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

PE302

DWG TITLE

PE PASTERNAK®

THE ENGINEER'S RF SOURCE

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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.

FSCM NO. 53919

CAD FILE 031414

SCALE N/A

SIZE A

150

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PE302 REV

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