

SMA Male to N Male Cable 24 Inch Length Using 160 Series Coax with HeatShrink, LF Solder, RoHS



RF Cable Assemblies Technical Data Sheet

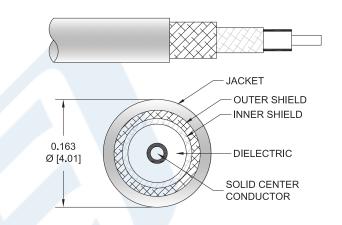
PE304-24

Configuration

Connector 1: SMA MaleConnector 2: N MaleCable Type: 160 Series

Features

- Max Frequency 18 GHz
- Shielding Effectivity > 110 dB
- 70% Phase Velocity
- · Double Shielded
- FEP Jacket



Applications

· General Purpose

Laboratory Use

Description

Pasternack's PE304-24 SMA male to type N male 24 inch cable using 160 series coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack SMA to type N cable assembly has a male to male gender configuration with 50 ohm flexible 160 series coax. The PE304-24 SMA male to type N male cable assembly operates to 18 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 110 dB.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.35:1	
Velocity of Propagation		70		%
RF Shielding	110			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]

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 N Male Cable 24 Inch Length Using 160 Series Coax with HeatShrink, LF Solder, RoHS PE304-24

ISO 9001 : 2008 Registered



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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	3	5	10	18	GHz
Insertion Loss (Typ.)	0.22	0.4	0.52	0.8	1.16	dB

Electrical Specification Notes:

Insertion loss does not include the loss of the connectors.

Insertion loss is estimated as 0.05 x sqrt(fGHz) dB per connector.

Short lengths up to 12" long may exhibit VSWR measurements up to 9% higher.

Amplitude variation not to exceed 10% in a coiled vs uncoiled, a coil is defined as a 4% loop.

Mechanical Specifications

Cable Assembly

24 in [609.6 mm] Length*

Weight 0.163 lbs [73.94 g]

Cable

Cable Type Impedance

Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2 Jacket Material

Jacket Diameter

Repeated Minimum Bend Radius

160 Series 50 Ohms Solid

Copper Clad Steel, Silver

PTFE

Silver Plated Copper Tape Silver Plated Copper Braid

FEP. Blue

0.163 in [4.14 mm]

0.82 in [20.83 mm]

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Connectors

Description	Connector 1	Connector 2	
Туре	SMA Male	N Male	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Gold	Gold	
Dielectric Type	PTFE	PTFE	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Hex Size	5/16 inch	13/16 inch	
Torque	8 in-lbs [0.9 Nm]	15 in-lbs [1.7 Nm]	

Mechanical Specification Notes:

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

· Values at 25°C, sea level.

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^{*}All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.



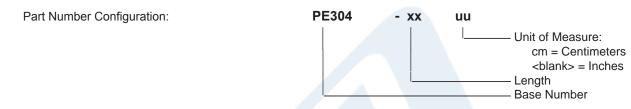
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How to Order



Example: PE304-12 = 12 inches long cable

PE304-100cm = 100 cm long cable

SMA Male to N Male Cable 24 Inch Length Using 160 Series Coax with HeatShrink, LF Solder, 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.

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URL: https://www.pasternack.com/sma-male-n-male-pe-p141-cable-assembly-pe304-24-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.



PE304-24 CAD Drawing SMA Male to N Male Cable 24 Inch Length Using 160 Series Coax with HeatShrink, LF Solder, RoHS

