



JACKET

OUTER SHIELD

INNER SHIELD

DIELECTRIC

SOLID CENTER CONDUCTOR

RF Cable Assemblies Technical Data Sheet

PE302-24

Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: PE-P141

Features

- Max Frequency 18 GHz
- Shielding Effectivity > 110 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket
- 160 series, PE-P141 Spiral Strip flexible coax

Applications

General Purpose

Laboratory Use

Description

Pasternack's PE302-24 type N male to type N male 24 inch cable using PE-P141 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 type N to type N cable assembly has a male to male gender configuration with 50 ohm flexible PE-P141 coax. The PE302-24 type N 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.

PE-P141

0.163

Ø [4.01]

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.

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 Cable 24 Inch Length Using PE-P141 Coax with HeatShrink, LF Solder PE302-24

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

Sales@Pasternack.com + Techsupport@Pasternack.com





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Electrical Specifications

۱	Minim	um .	Typical	Maximum	Units
Frequency Range				18	GHz
				1.35:1	
			70		%
	110				dB
		2	9.4 [96.46]		pF/ft [pF/m]
equency					
F1	F2	F3	F4	F5	Units
1	3	5	10	18	GHz
0.22	0.4	0.52	0.8	1.16	dB
	equency F1 1	DC 110 equency F1 F2 1 3	DC 110 2 equency F1 F2 F3 1 3 5	DC 70 110 29.4 [96.46] equency F1 F2 F3 F4 1 3 5 10	DC 18 1.35:1 70 110 29.4 [96.46] equency F1 F2 F3 F4 F5 1 3 5 10 18

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 24" 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 Length*

Weight

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 24 in [609.6 mm] 0.288 lbs [130.63 g]

PE-P141 50 Ohms Solid Copper Clad Steel, Silver PTFE 2 Silver Plated Copper Tape Silver Plated Copper Braid FEP, Blue 0.163 in [4.14 mm]

Repeated Minimum Bend Radius

0.82 in [20.83 mm]

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Connectors

Description	Connector 1	Connector 2 N Male	
Туре	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	13/16 inch	13/16 inch	
Torque	15 in-lbs [1.7 Nm]	15 in-lbs [1.7 Nm]	

Mechanical Specification Notes:

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

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

• Values at 25°C, sea level.

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How to Order
Part Number Configuration: PE302 - xx uu Unit of Measure: cm = Centimeters clank> = Inches Length Base Number
Example: PE302-12 = 12 inches long cable PE302-100cm = 100 cm long cable
N Male to N Male Cable 24 Inch Length Using PE-P141 Coax with HeatShrink, LF Solder from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% 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 Cable 24 Inch Length Using PE-P141 Coax with HeatShrink, LF Solder PE302-24
URL: https://www.pasternack.com/n-male-n-male-300-series-cable-assembly-pe302-24-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.

PE302-24 CAD Drawing N Male to N Male Cable 24 Inch Length Using PE-P141 Coax with HeatShrink, LF Solder

