



RF Cable Assemblies Technical Data Sheet

PE319-24

Configuration · Connector 1: 2.92mm Male Connector 2: 2.92mm Male Cable Type: VNA Cable JACKET Features **OUTER SHIELD** Max Frequency 40 GHz **INNER SHIELD** 77% Phase Velocity Double Shielded FEP Jacket DIELECTRIC SOLID CENTER CONDUCTOR Applications General Purpose Test & Measurement Laboratory Use

Description

Pasternack's PE319-24 2.92mm male to 2.92mm male test 24 inch cable using VNA test cable 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 2.92mm to 2.92mm cable assembly has a male to male gender configuration with 50 ohm flexible VNA cable coax. The PE319-24 2.92mm male to 2.92mm male cable assembly operates to 40 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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		40	GHz
Return Loss			-16	dB
Velocity of Propagation		77		%
Dielectric Withstanding Voltage (AC)			1,000	Vrms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2.92mm Male to 2.92mm Male Test Cable 24 Inch Length Using VNA Test Cable Coax, LF Solder, RoHS PE319-24

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





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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	10	18	26.5	40		GHz
Insertion Loss (Max.)	0.8	1.12	1.36	1.74		dB
Return Loss (Max.)	-25	-22	-20	-16		dB
Power Handling (Max.)	150					Watts

Electrical Specification Notes:

Shielding effectiveness > 100 dB at 1 GHz.

Insertion loss does not include the loss of the connectors. Insertion loss is estimated as 0.05 x sqrt(fGHz) dB per connector.

Mechanical Specifications

Cable Assembly Length* Diameter 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

Repeated Minimum Bend Radius Typical Flex Cycles 24 in [609.6 mm] 0.362 in [9.19 mm]

0.42 lbs [190.51 g]

VNA Cable 50 Ohms Solid Copper, Silver PTFE 2 Silver Plated Copper Tape Silver Plated Copper Braid FEP

1.38 in [35.05 mm] 10,000

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Connectors

Description	Connector 1	Connector 2 2.92mm Male	
Туре	2.92mm Male		
Specification	MIL-STD-348	MIL-STD-348	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Gold	Gold	
Dielectric Type	PPO	PPO	
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	5/16 inch	
Torque	8 in-lbs [0.9 Nm]	8 in-lbs [0.9 Nm]	

Mechanical Specification Notes:

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

Environmental Specifications

Temperature Operating Range

-55 to +165 deg C

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 **PE319** Part Number Configuration: - XX uu Unit of Measure: cm = Centimeters <blank> = Inches Length Base Number Example: PE319-12 = 12 inches long cable PE319-100cm = 100 cm long cable 2.92mm Male to 2.92mm Male Test Cable 24 Inch Length Using VNA Test Cable Coax, 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. Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2.92mm Male to 2.92mm Male Test Cable 24 Inch Length Using VNA Test Cable Coax, LF Solder, RoHS PE319-24 URL: https://www.pasternack.com/2.92mm-male-2.92mm-male-vna-cable-cable-assembly-pe319-24-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.

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PE319-24 CAD Drawing 2.92mm Male to 2.92mm Male Test Cable 24 Inch Length

Using VNA Test Cable Coax, LF Solder, RoHS

