

2.92mm Male to 2.92mm Male Test Cable 72 Inch Length Using VNA Test Cable Coax, LF Solder, RoHS



Laboratory Use

PE319-72

RF Cable Assemblies Technical Data Sheet

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

Description

Pasternack's PE319-72 2.92mm male to 2.92mm male test 72 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 PE319-72 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 72 Inch Length Using VNA Test Cable Coax, LF Solder, RoHS PE319-72

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.)	2.4	3.36	4.08	5.22		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 72 in [182.88 cm] 0.362 in [9.19 mm]

0.81 lbs [367.41 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		
Туре	2.92mm Male	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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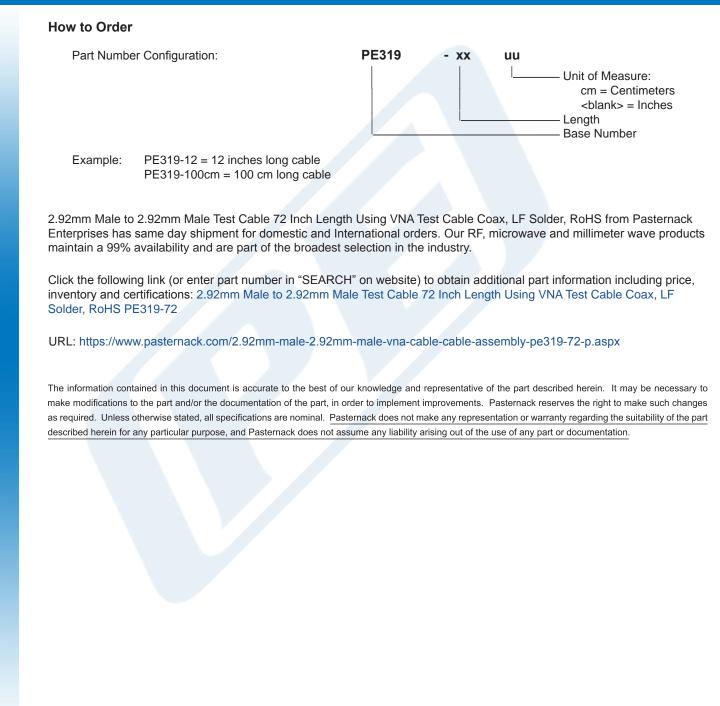




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PE319-72 CAD Drawing 2.92mm Male to 2.92mm Male Test Cable 72 Inch Length Using VNA Test Cable Coax, LF Solder, RoHS

