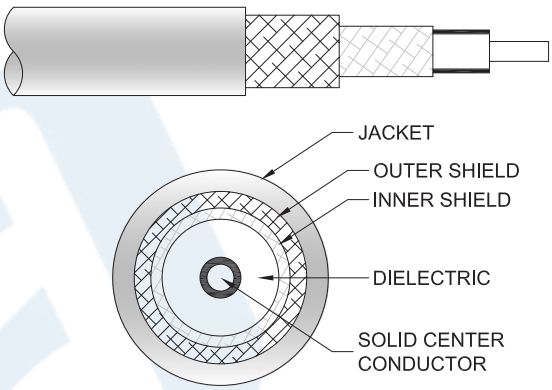
PASTERNACK
THE ENGINEER'S RF SOURCE

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

RF Cable Assemblies Technical Data Sheet PE319

Configuration

- Connector 1: 2.92mm Male
- Connector 2: 2.92mm Male
- Cable Type: VNA Cable



Features

- Max Frequency 40 GHz
- 77% Phase Velocity
- Double Shielded
- FEP Jacket

Applications

- General Purpose
- Test & Measurement
- Laboratory Use

Description

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

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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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	10	18	26.5	40		GHz
Insertion Loss (Max.)	0.4 [1.31]	0.56 [1.84]	0.68 [2.23]	0.87 [2.85]		dB/ft [dB/m]
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

Diameter	0.362 in [9.19 mm]
Weight	0.45 lbs [204.12 g]

Cable

Cable Type	VNA Cable
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	2
Shield Layer 1	Silver Plated Copper Tape
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP
Repeated Minimum Bend Radius	1.38 in [35.05 mm]
Typical Flex Cycles	10,000

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Connectors

Description	Connector 1	Connector 2
Type	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 ± 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

Part Number Configuration:

PE319 - xx uu

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE319 — Base Number

Example: PE319-12 = 12 inches long cable
PE319-100cm = 100 cm long cable

2.92mm Male to 2.92mm Male Test Cable 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 Using VNA Test Cable Coax, LF Solder, RoHS PE319

URL: https://www.pasternack.com/2.92mm-male-2.92mm-male-vna-cable-cable-assembly-pe319-p.aspx

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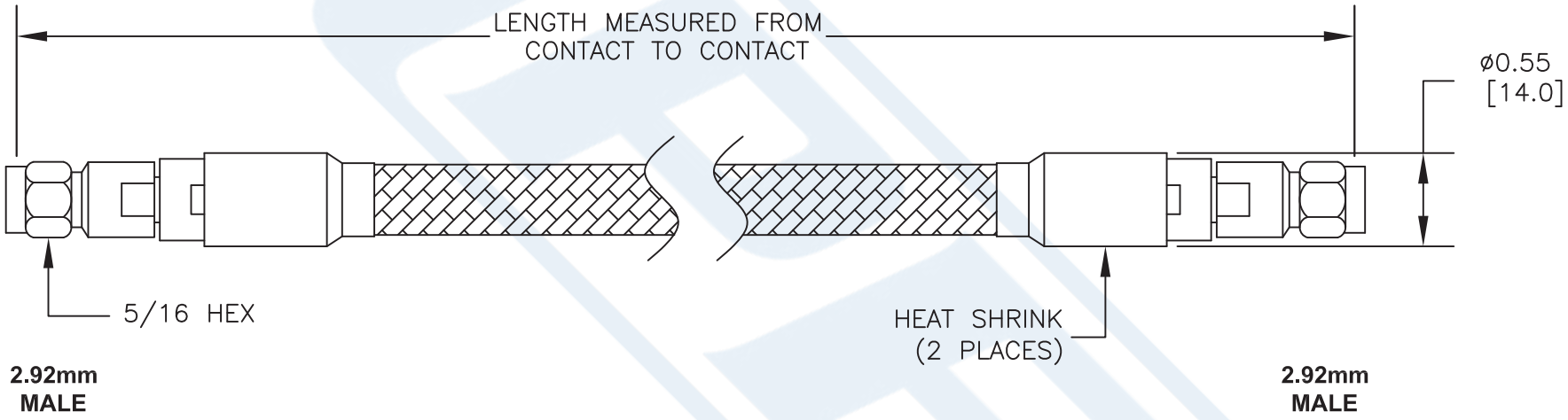
PE319 CAD Drawing

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



STANDARD TOLERANCES	
.X	±0.2
.XX	±0.1
.XXX	±0.05

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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DWG TITLE

PE319

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].

FSCM NO. 53919	CAD FILE 110816	SCALE N/A	SIZE A	41742