



## **RF Cable Assemblies Technical Data Sheet**

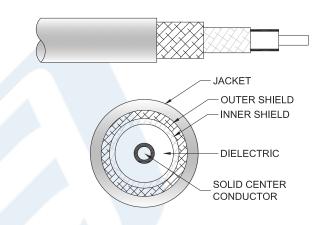
PE317-72

### Configuration

Connector 1: 3.5mm MaleConnector 2: 3.5mm FemaleCable Type: VNA Cable

#### **Features**

- Max Frequency 26.5 GHz
- 77% Phase Velocity
- · Double Shielded
- FEP Jacket



# **Applications**

· General Purpose

Test & Measurement

· Laboratory Use

#### Description

Pasternack's PE317-72 3.5mm male to 3.5mm female 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 3.5mm to 3.5mm cable assembly has a male to female gender configuration with 50 ohm flexible VNA cable coax. The PE317-72 3.5mm male to 3.5mm female cable assembly operates to 26.5 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 3.5mm Male to 3.5mm Female Test Cable 72 Inch Length Using VNA Test Cable Coax, LF Solder, RoHS PE317-72

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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#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		26.5	GHz
Return Loss		200	-18	dB
Velocity of Propagation		77		%
Dielectric Withstanding Voltage (AC)			1,000	Vrms

#### **Specifications by Frequency**

Specifications by Frequency						
F1	F2	F3	F4	F5	Units	
1	10	18	26.5		GHz	
0.48	1.74	2.4	3			
-30	-25	-20	-18		dB	
	286				W	
	F1 1 0.48	F1         F2           1         10           0.48         1.74           -30         -25	F1         F2         F3           1         10         18           0.48         1.74         2.4           -30         -25         -20	F1         F2         F3         F4           1         10         18         26.5           0.48         1.74         2.4         3           -30         -25         -20         -18	F1         F2         F3         F4         F5           1         10         18         26.5           0.48         1.74         2.4         3           -30         -25         -20         -18	

**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**

Weight 1.105 lbs [501.22 g]

Cable

Cable Type

VNA Cable
Impedance

Inner Conductor Type

Inner Conductor Material and Plating

Conner Silv

Inner Conductor Material and Plating

Dielectric Type

Number of Shields

Shield Layer 1

Copper, Silver
PTFE

2

Silver Plated Cor

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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Sales@Pasternack.com • Techsupport@Pasternack.com





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#### **Connectors**

Description	Connector 1	Connector 2		
Туре	3.5mm Male	3.5mm Female		
Specification	MIL-STD-348	MIL-STD-348		
Impedance	50 Ohms	50 Ohms		
Contact Material and Plating	Gold	Gold		
Dielectric Type	PPO	PPO		
Outer Conductor Material and Plating		Passivated Stainless Steel		
Body Material and Plating	Passivated Stainless Steel			
Coupling Nut Material and Plating	Passivated Stainless Steel			
Hex Size	5/16 inch	V <sub>1</sub> = 10		
Torque	8 in-lbs [0.9 Nm]			

### **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



Example: PE317-12 = 12 inches long cable PE317-100cm = 100 cm long cable

maintain a 99.4% availability and are part of the broadest selection in the industry.

3.5mm Male to 3.5mm Female Test Cable 72 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

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URL: https://www.pasternack.com/3.5mm-male-3.5mm-female-vna-cable-cable-assembly-pe317-72-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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**PE317-72 CAD Drawing**3.5mm Male to 3.5mm Female Test Cable 72 Inch Length Using VNA Test Cable Coax, LF Solder, RoHS

