

3.5mm Male to 3.5mm Male Test Cable Using VNA Test Cable Coax, LF Solder, RoHS

**RF Cable Assemblies Technical Data Sheet** 



**PE315** 

### Configuration • Connector 1: 3.5mm Male Connector 2: 3.5mm Male Cable Type: VNA Cable JACKET Features OUTER SHIELD Max Frequency 26.5 GHz **INNER SHIELD** 77% Phase Velocity Double Shielded FEP Jacket DIELECTRIC SOLID CENTER CONDUCTOR Applications General Purpose Test & Measurement Laboratory Use

## Description

Pasternack's PE315 3.5mm male to 3.5mm 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 3.5mm to 3.5mm cable assembly has a male to male gender configuration with 50 ohm flexible VNA cable coax. The PE315 3.5mm male to 3.5mm male 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.

### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		26.5	GHz
Return Loss			-18	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: 3.5mm Male to 3.5mm Male Test Cable Using VNA Test Cable Coax, LF Solder, RoHS PE315

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	1	10	18	26.5		GHz
Insertion Loss (Max.)	0.08 [0.26]	0.29 [0.95]	0.4 [1.31]	0.5 [1.64]		dB/ft [dB/m]
Return Loss (Max.)	-30	-25	-20	-18		dB
Power Handling (Max.)		286				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 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 0.47 in [11.94 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 3.5mm Male	
Туре	3.5mm 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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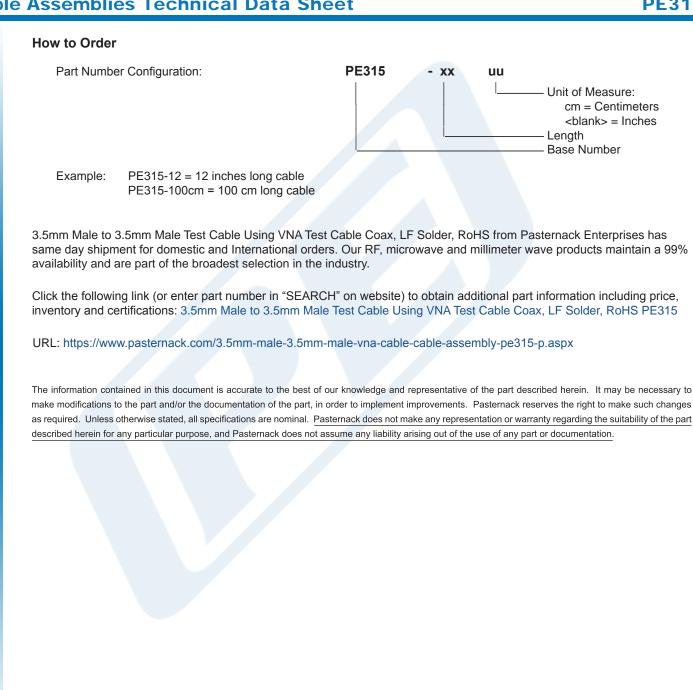


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PE315 CAD Drawing 3.5mm Male to 3.5mm Male Test Cable Using VNA Test Cable Coax, LF Solder, RoHS

