



## 3.5mm Male to 3.5mm Male VNA Test Cable, ROHS

### TECHNICAL DATA SHEET

PE315

#### 3.5mm Male to 3.5mm Male VNA Test Cable, ROHS

##### Configuration

Connector 1	3.5mm Male
Connector 1 Specification	MIL-STD-348
Connector 2	3.5mm Male
Connector 2 Specification	MIL-STD-348
Cable Type	VNA Cable

##### Electrical Specifications

Frequency Range, GHz	DC to 26.5
Impedance, Ohms	50
Maximum VSWR	1.29:1
Velocity of Propagation, %	77
RF Shielding, dB	100
Dielectric Withstanding Voltage (AC), Vrms	1,000

##### Typical Performance by Frequency

###### Frequency 1

Frequency, MHz	1000
VSWR	1.07:1
Return Loss, dB	30
Insertion Loss	0.08 dB/ft [ 0.26 dB/m ]

###### Frequency 2

Frequency, GHz	10
VSWR	1.12:1
Return Loss, dB	25
Insertion Loss	0.28 dB/ft [ 0.92 dB/m ]
Power Handling, Watts	286

###### Frequency 3

Frequency, GHz	18
VSWR	1.22:1
Return Loss, dB	20
Insertion Loss	0.39 dB/ft [ 1.28 dB/m ]

###### Frequency 4

Frequency, GHz	26.5
VSWR	1.29:1
Return Loss, dB	18
Insertion Loss	0.49 dB/ft [ 1.61 dB/m ]

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 VNA Test Cable, ROHS PE315](#)

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.



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#### Mechanical Specifications

##### Cable Assembly

Cable Type VNA Cable

##### Temperature

Temperature Operating Range, deg C -55 to +165

Diameter, in [mm] 0.47 [11.94]

##### Cable

Center Conductor Type Solid

Cable Inner Conductor Copper, Silver

No of Shields 2

Dielectric Type PTFE

Jacket Material FEP

##### Connector 1

Type 3.5mm Male

Configuration Straight

Inner Conductor Material and Plating Gold

Coupling Nut Material and Plating Passivated Stainless Steel

Hex Size, in. 5/16

Torque, in-lbs [Nm] 8 [0.9]

Body Material and Plating Passivated Stainless Steel

Dielectric Type PPO

##### Connector 2

Type 3.5mm Male

Configuration Straight

Inner Conductor Material and Plating Gold

Hex Size, in. 5/16

Torque, in-lbs [Nm] 8 [0.9]

Body Material and Plating Passivated Stainless Steel

Dielectric Type PPO

#### Compliance Certifications (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

RoHS Compliant Yes

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#### Plotted and Other Data

Notes:

Values at 25 °C, sea level

3.5mm Male to 3.5mm Male VNA Test Cable, ROHS from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

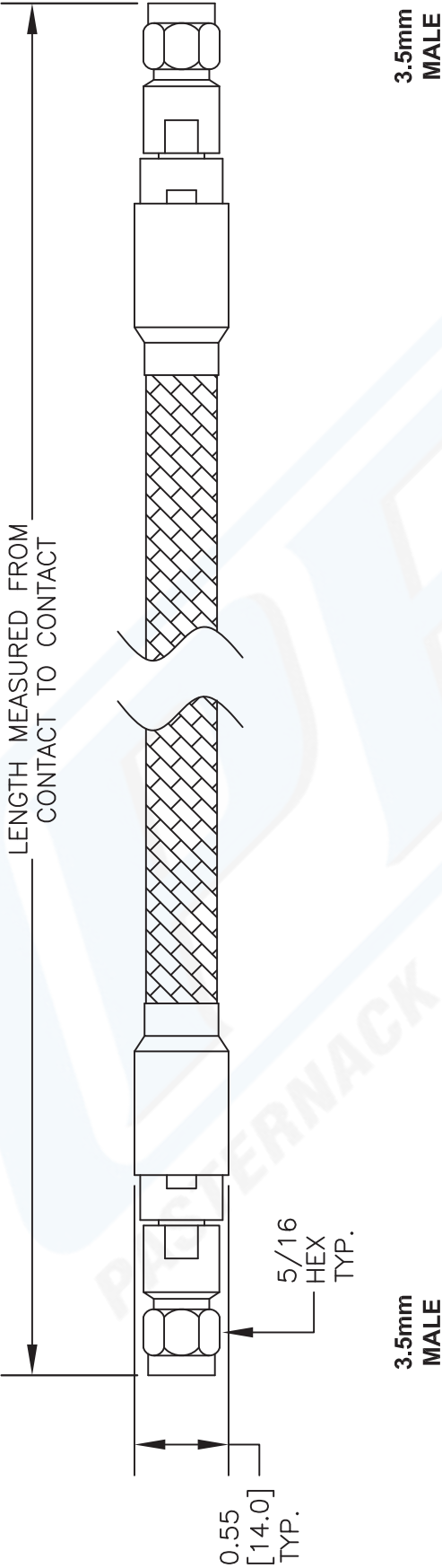
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3.5mm Male to 3.5mm Male VNA Test Cable, ROHS PE315](http://www.pasternack.com/3.5mm-male-3.5mm-male-vna-cable-cable-assembly-pe315-p.aspx)

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PE315 CAD Drawing

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How To Order			
Part Number Configuration		Examples	
PE3	zzz yy - xx uu	PE3000LF-100	-12
		PE3000-100	-24
		PE3000LF-100CM	-36
		PE3000-100CM	-48
			-60
			-xx
Note: LF applies only to RF cables		Length	
		CM = Centimeters	
		< Blank > = Inches	
		Custom Length	
		-25CM	
		-50CM	
		-75CM	
		-100CM	
		-125CM	
		-xxCM	
		Custom Length	

- 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].
  4. LENGTH TOLERANCE IS  $\pm 1.5\%$  OR  $3/8"$ , WHICHEVER IS GREATER.

DWG TITLE

PE315

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FSCM NO. 53919

CAD FILE 012111

SCALE N/A

SIZE A

2233