

3.5mm Male to 3.5mm Male Test Cable 24 Inch Length Using VNA Test Cable Coax, LF Solder, RoHS



RF Cable Assemblies Technical Data Sheet

PE315-24

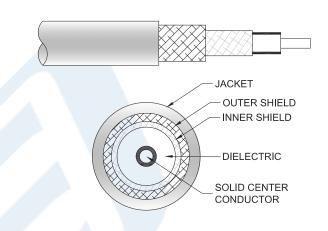
Configuration

Connector 1: 3.5mm MaleConnector 2: 3.5mm Male

• Cable 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 PE315-24 3.5mm male to 3.5mm male test 24 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 male gender configuration with 50 ohm flexible VNA cable coax. The PE315-24 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 24 Inch Length Using VNA Test Cable Coax, LF Solder, RoHS PE315-24

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451



3.5mm Male to 3.5mm Male Test Cable 24 Inch Length Using VNA Test Cable Coax, LF Solder, RoHS



RF Cable Assemblies Technical Data Sheet

PE315-24

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|-----|------|----|-------|
| Frequency | 1 | 10 | 18 | 26.5 | | GHz |
| Insertion Loss (Max.) | 0.16 | 0.58 | 0.8 | 1 | | dB |
| 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

Length* 24 in [609.6 mm] 0.47 in [11.94 mm] Diameter

0.468 lbs [212.28 g] Weight

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

Shield Layer 1 Silver Plated Copper Tape Shield Layer 2 Silver Plated Copper Braid

Jacket Material

Repeated Minimum Bend Radius 1.38 in [35.05 mm]

Typical Flex Cycles 10.000

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 24 Inch Length Using VNA Test Cable Coax, LF Solder, RoHS PE315-24

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451



3.5mm Male to 3.5mm Male Test Cable 24 Inch Length Using VNA Test Cable Coax, LF Solder, RoHS



RF Cable Assemblies Technical Data Sheet

PE315-24

Connectors

| Description | Connector 1 | Connector 2 | |
|-----------------------------------|----------------------------|----------------------------|--|
| Туре | 3.5mm Male | 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:

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.

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 24 Inch Length Using VNA Test Cable Coax, LF Solder, RoHS PE315-24

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

^{*}All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.



3.5mm Male to 3.5mm Male Test Cable 24 Inch Length Using VNA Test Cable Coax, LF Solder, RoHS



RF Cable Assemblies Technical Data Sheet

PE315-24

How to Order



Example: PE315-12 = 12 inches long cable

PE315-100cm = 100 cm long cable

3.5mm Male to 3.5mm Male Test Cable 24 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 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 Test Cable 24 Inch Length Using VNA Test Cable Coax, LF Solder, RoHS PE315-24

URL: https://www.pasternack.com/3.5mm-male-3.5mm-male-vna-cable-cable-assembly-pe315-24-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.

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

PE315-24 CAD Drawing3.5mm Male to 3.5mm Male Test Cable 24 Inch Length Using VNA Test Cable Coax, LF Solder, RoHS

