

N Male to N Male Right Angle Cable Using RG223 Coax



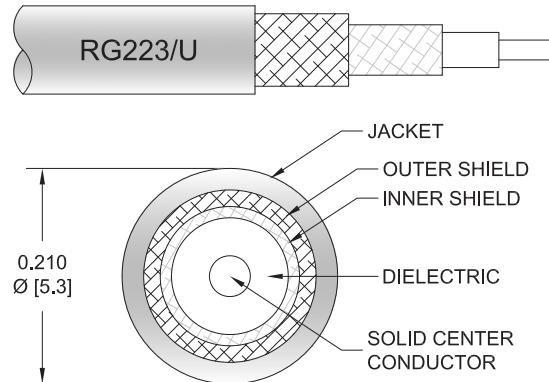
PE3W15301

Configuration

- Connector 1: N Male
- Connector 2: N Male Right Angle
- Cable Type: RG223
- Coax Flex Type: Flexible

Features

- Max Frequency 1 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W15301 type N male to type N male right angle cable using RG223 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 type N to type N cable assembly has a male to male gender configuration with 50 ohm flexible RG223 coax. The PE3W15301 type N male to type N male cable assembly operates to 1 GHz. The right angle type N interface on the RG223 cable allows for easier connections in tight spaces. 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 | | 1 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | 66 | | | % |
| Capacitance | 30.8 [101.05] | | | pF/ft [pF/m] |
| Operating Voltage (AC) | | | 1,000 | Vrms |

Specifications by Frequency

N Male to N Male Right Angle Cable Using RG223 Coax



PE3W15301

| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|--------------|--------------------------|-----------------------|------|------|------|------|-------|-------|--------------|
| | | Frequency | 50 | 100 | 250 | 500 | 1000 | MHz | |
| PE3W15301 | Custom Lengths Available | Insertion Loss (Typ.) | 0.01 | 0.02 | 0.05 | 0.09 | 0.134 | dB/ft | |
| | | | 0.04 | 0.07 | 0.17 | 0.3 | 0.44 | dB/m | |
| PE3W15301-12 | 12 inch | Insertion Loss (Typ.) | 0.32 | 0.33 | 0.36 | 0.39 | 0.44 | dB | 0.221 |
| PE3W15301-24 | 24 inch | Insertion Loss (Typ.) | 0.33 | 0.35 | 0.41 | 0.48 | 0.57 | dB | 0.253 |
| PE3W15301-36 | 36 inch | Insertion Loss (Typ.) | 0.34 | 0.37 | 0.46 | 0.57 | 0.71 | dB | 0.284 |
| PE3W15301-60 | 60 inch | Insertion Loss (Typ.) | 0.36 | 0.41 | 0.56 | 0.75 | 0.97 | dB | 0.346 |
| PE3W15301-72 | 72 inch | Insertion Loss (Typ.) | 0.37 | 0.43 | 0.61 | 0.84 | 1.11 | dB | 0.377 |

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1: 0.1 dB

Loss due to Connector 2: 0.2 dB

Base Weight: 0.221 pounds

Additional Weight per Inch: 0.00259 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
Weight 0.221 lbs [100.24 g]

Cable

| | |
|--------------------------------------|----------------------------|
| Cable Type | RG223 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper, Silver |
| Dielectric Type | PE |
| Number of Shields | 2 |
| Shield Layer 1 | Silver Plated Copper Braid |
| Shield Layer 2 | Silver Plated Copper Braid |
| Jacket Material | PVC, Black |
| Jacket Diameter | 0.209 in [5.31 mm] |
| Repeated Minimum Bend Radius | 1 in [25.4 mm] |

N Male to N Male Right Angle Cable Using RG223 Coax



PE3W15301

Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|----------------------|----------------------|
| Type | N Male | N Male Right Angle |
| Specification | MIL-STD-348A | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Right Angle |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Contact Plating Specification | 30 μ in minimum | 30 μ in minimum |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |
| Body Plating Specification | 100 μ in minimum | 100 μ in minimum |
| Coupling Nut Material and Plating | Brass, Nickel | Brass, Nickel |
| Coupling Nut Plating Specification | 100 μ in minimum | 100 μ in minimum |

Environmental Specifications

Operating Range Temperature

-40 to +80 deg C

Compliance Certifications

(see product page for current document)

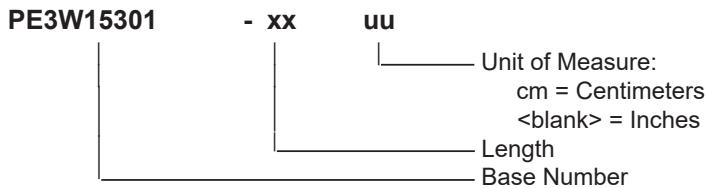
Plotted and Other Data

Notes:

N Male to N Male Right Angle Cable Using RG223 Coax

**PE3W15301****Typical Performance Data****How to Order**

Part Number Configuration:



Example: PE3W15301-12 = 12 inches long cable
PE3W15301-100cm = 100 cm long cable

N Male to N Male Right Angle Cable Using RG223 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

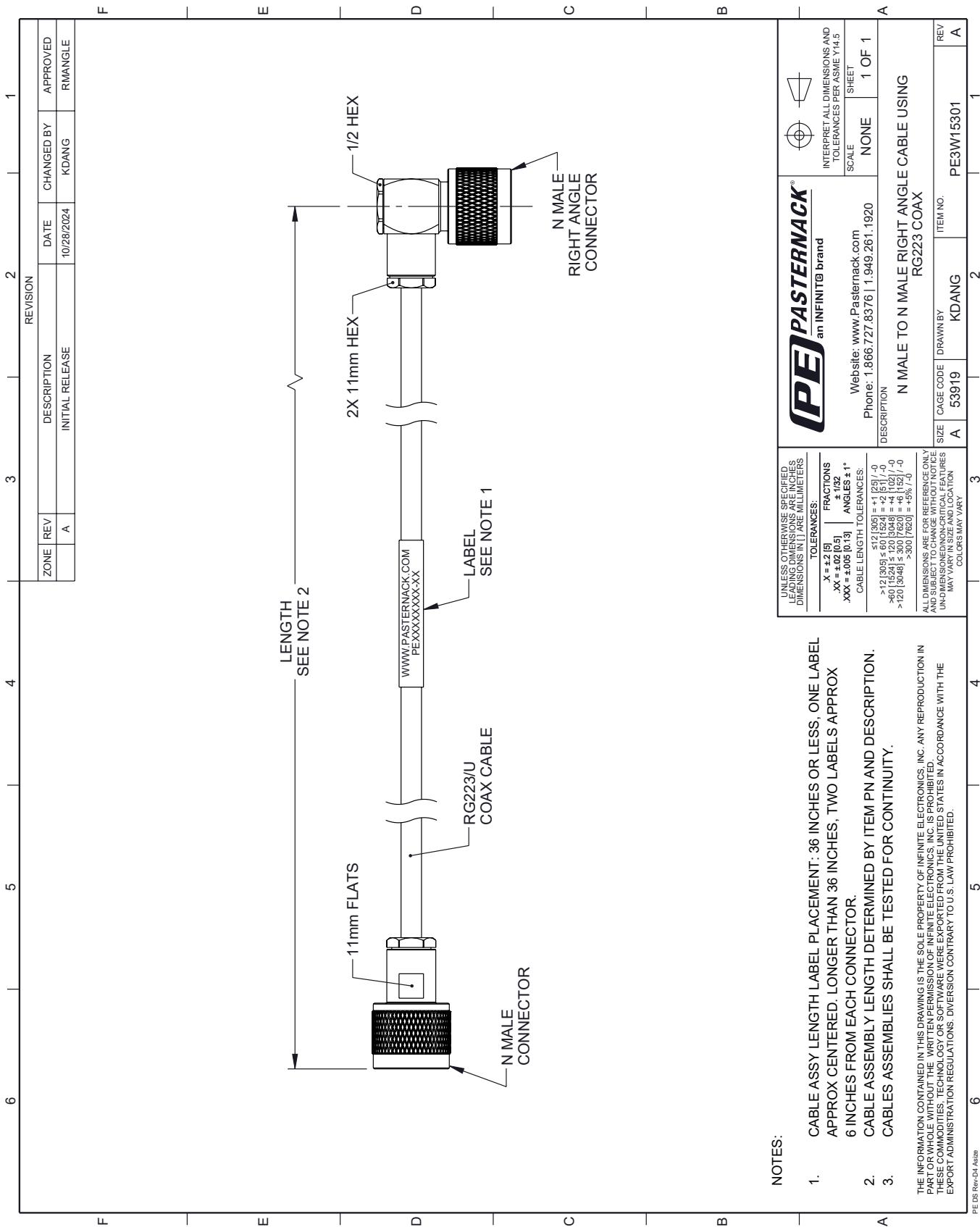
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to N Male Right Angle Cable Using RG223 Coax PE3W15301](#)

URL: <https://www.pasternack.com/n-male-to-n-male-cable-using-rg223-pe3w15301-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3W15301 CAD Drawing

N Male to N Male Right Angle Cable Using RG223 Coax



NOTES.

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

ALL INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED.

© 2023 Infinite Electronics, Inc. Pasternack is a registered trademark of Infinite Electronics, Inc.

+1 (866) 558-2786 | sales@pasternack.com | pasternack.com