



N Male Right Angle to N Female Cable 50 CM
Length Using LMR-600 Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

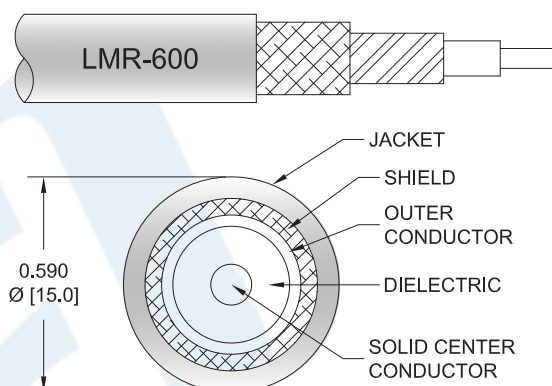
PE3W02447/HS-50CM

Configuration

- Connector 1: N Male Right Angle
- Connector 2: N Female
- Cable Type: LMR-600

Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 87% Phase Velocity
- Double Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W02447/HS-50CM type N male right angle to type N female 50 cm cable using LMR-600 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 female gender configuration with 50 ohm flexible LMR-600 coax. The PE3W02447/HS-50CM type N male to type N female cable assembly operates to 3 GHz. The right angle type N interface on the LMR-600 cable allows for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

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: [N Male Right Angle to N Female Cable 50 CM Length Using LMR-600 Coax with HeatShrink PE3W02447/HS-50CM](#)



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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------------|---------|--------------|---------|-----------------|
| Frequency Range | DC | | 3 | GHz |
| VSWR | | | 1.45:1 | |
| Velocity of Propagation | | 87 | | % |
| RF Shielding | 90 | | | dB |
| Group Delay | | 1.17 [3.84] | | ns/ft [ns/m] |
| Capacitance | | 23.4 [76.77] | | pF/ft [pF/m] |
| Inductance | | 0.058 [0.19] | | uH/ft [uH/m] |
| DC Resistance Inner Conductor | | 0.53 [1.74] | | Ω/1000ft [Ω/Km] |
| DC Resistance Outer Conductor | | 1.2 [3.94] | | Ω/1000ft [Ω/Km] |
| Jacket Spark | | | 8,000 | Vrms |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency | 0.25 | 0.5 | 1 | 2.5 | 3 | GHz |
| Insertion Loss (Max.) | 0.32 | 0.33 | 0.34 | 0.37 | 0.37 | dB |

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.3dB of connector loss.

Mechanical Specifications

Cable Assembly

| | |
|----------|----------------------|
| Length* | 19.69 in [500.13 mm] |
| Diameter | 0.86 in [21.84 mm] |

Cable

| | |
|--------------------------------------|----------------------|
| Cable Type | LMR-600 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper Clad Aluminum |
| Dielectric Type | PE (F) |
| Number of Shields | 2 |
| Shield Layer 1 | Aluminum Tape |
| Shield Layer 2 | Tinned Copper Braid |

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| | |
|------------------------------|------------------------|
| Jacket Material | PE, Black |
| Jacket Diameter | 0.59 in [14.99 mm] |
| One Time Minimum Bend Radius | 1.5 in [38.1 mm] |
| Repeated Minimum Bend Radius | 6 in [152.4 mm] |
| Bending Moment | 2.75 lbs-ft [3.73 N-m] |
| Flat Plate Crush | 60 lbs/in [1.07 Kg/mm] |
| Tensile Strength | 350 lbs [158.76 Kg] |

Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------|--------------------|-----------------------|
| Type | N Male Right Angle | N Female |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Brass, Gold | Phosphor Bronze, Gold |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |

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 -40 to +85 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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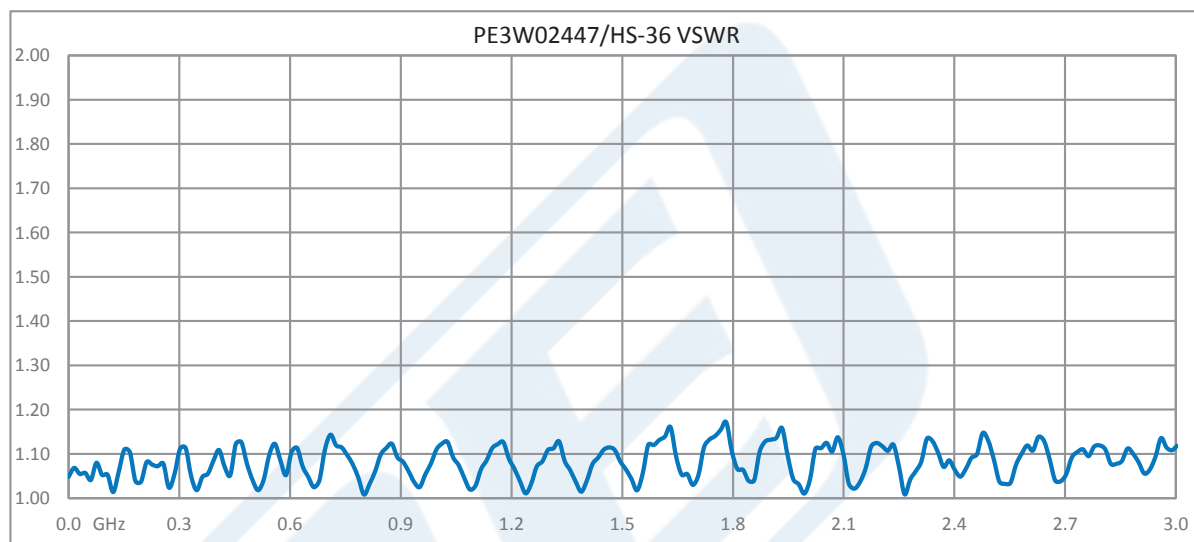


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Typical Performance Data



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How to Order

Part Number Configuration:

PE3W02447/HS

- xx

uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3W02447/HS-12 = 12 inches long cable
PE3W02447/HS-100cm = 100 cm long cable

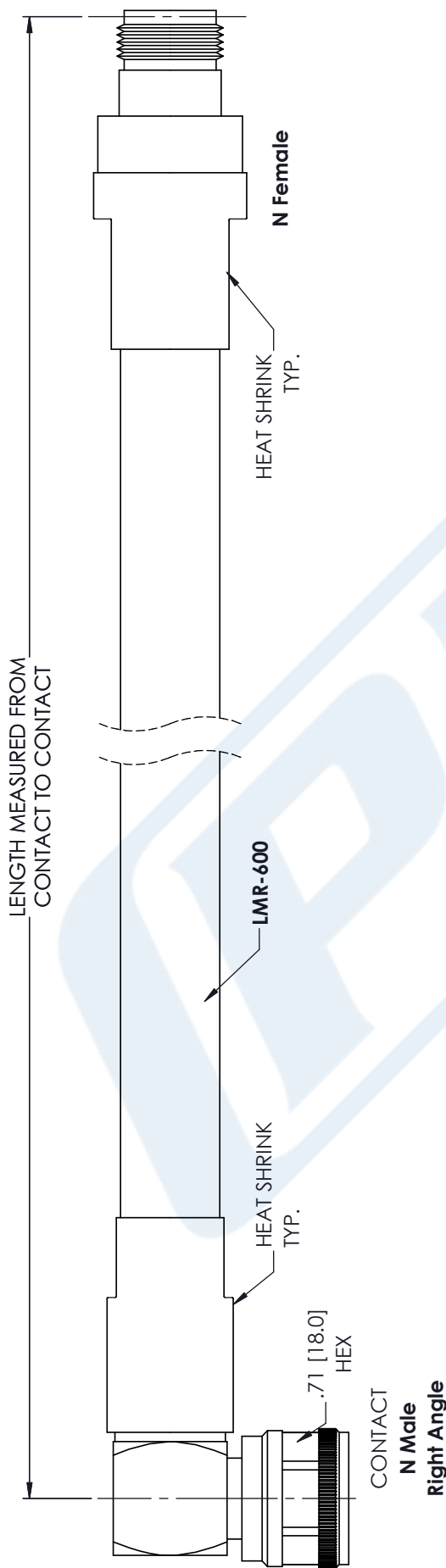
N Male Right Angle to N Female Cable 50 CM Length Using LMR-600 Coax with HeatShrink from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Right Angle to N Female Cable 50 CM Length Using LMR-600 Coax with HeatShrink PE3W02447/HS-50CM](#)

URL: <https://www.pasternack.com/n-male-n-female-lmr600-cable-assembly-pe3w02447-hs-50cm-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.

PE3W02447/HS-50CM CAD Drawing
N Male Right Angle to N Female Cable 50 CM Length
Using LMR-600 Coax with HeatShrink



STANDARD TOLERANCES

| | |
|------|--------|
| .X | ±0.2 |
| .XX | ±0.01 |
| .XXX | ±0.005 |

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

PE PASTERNAK
THE ENGINEER'S RF SOURCE

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Website: www.pasternack.com | E-Mail: sales@pasternack.com

DWG TITLE
PE3W02447/HS

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].

CAGE CODE 53919

CAD FILE 09/27/18

SCALE N/A

SIZE A

CN2379