

N Male Right Angle to N Male Low Loss Cable Using LMR-240 Coax with HeatShrink



PE3C0466/HS

Configuration

- Connector 1: N Male Right Angle
- Connector 2: N Male
- Cable Type: LMR-240
- Coax Flex Type: Flexible

Features

- Max Frequency 8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C0466/HS type N male right angle to type N male cable using LMR-240 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 LMR-240 coax. The PE3C0466/HS type N male to type N male cable assembly operates to 8 GHz. The right angle type N interface on the LMR-240 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.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------------|---------|--------------|---------|-----------------------|
| Frequency Range | DC | | 8 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 84 | | % |
| RF Shielding | 90 | | | dB |
| Group Delay | | 1.21 [3.97] | | ns/ft [ns/m] |
| Capacitance | | 24.2 [79.4] | | pF/ft [pF/m] |
| Inductance | | 0.06 [0.2] | | uH/ft [uH/m] |
| DC Resistance Inner Conductor | | 3.2 [10.5] | | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor | | 3.89 [12.76] | | Ohms/1000ft [Ohms/Km] |

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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------|---------|---------|---------|-------|
| Jacket Spark | | | 5,000 | Vrms |

Specifications by Frequency

| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|----------------|--------------------------|-----------------------|-----------|-------|-------|-------|-------|-------|--------------|
| | | | Frequency | | | | | MHz | |
| PE3C0466/HS | Custom Lengths Available | Insertion Loss (Typ.) | 0.039 | 0.056 | 0.076 | 0.129 | 0.204 | dB/ft | |
| | | | 0.13 | 0.19 | 0.25 | 0.43 | 0.67 | dB/m | |
| PE3C0466/HS-12 | 12 inch | Insertion Loss (Typ.) | 0.34 | 0.36 | 0.38 | 0.43 | 0.51 | dB | 0.2 |
| PE3C0466/HS-24 | 24 inch | Insertion Loss (Typ.) | 0.38 | 0.42 | 0.46 | 0.56 | 0.71 | dB | 0.233 |
| PE3C0466/HS-36 | 36 inch | Insertion Loss (Typ.) | 0.42 | 0.47 | 0.53 | 0.69 | 0.92 | dB | 0.266 |
| PE3C0466/HS-48 | 48 inch | Insertion Loss (Typ.) | 0.46 | 0.53 | 0.61 | 0.82 | 1.12 | dB | 0.299 |
| PE3C0466/HS-60 | 60 inch | Insertion Loss (Typ.) | 0.5 | 0.58 | 0.68 | 0.95 | 1.32 | dB | 0.332 |

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: | 0.2 dB |
| Loss due to Connector 2: | 0.1 dB |
| Base Weight: | 0.2 pounds |
| Additional Weight per Inch: | 0.00275 pounds |

Mechanical Specifications

Cable Assembly

| | |
|----------------|---------------------|
| Width/Diameter | 0.5 in [12.7 mm] |
| Weight | 0.167 lbs [75.75 g] |

Cable

| | |
|--------------------------------------|------------------------|
| Cable Type | LMR-240 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper |
| Dielectric Type | PE (F) |
| Number of Shields | 2 |
| Shield Layer 1 | Aluminum Tape |
| Shield Layer 2 | Tinned Copper Braid |
| Jacket Material | PE, Black |
| Jacket Diameter | 0.24 in [6.1 mm] |
| One Time Minimum Bend Radius | 0.75 in [19.05 mm] |
| Repeated Minimum Bend Radius | 2.5 in [63.5 mm] |
| Bending Moment | 0.25 lbs-ft [0.34 N-m] |
| Flat Plate Crush | 20 lbs/in [0.36 Kg/mm] |
| Tensile Strength | 80 lbs [36.29 Kg] |

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Connectors

| Description | Connector 1 | Connector 2 |
|-----------------------------------|--------------------|------------------|
| Type | N Male Right Angle | N Male |
| Specification | | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Right Angle | Straight |
| Mating Cycles | | 500 |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Contact Plating Specification | | 30 µin minimum |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Coupling Nut Material and Plating | | Brass, Tri-Metal |

Environmental Specifications

Operating Range Temperature -40 to +85 deg C

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

Plotted and Other Data

Notes:

N Male Right Angle to N Male Low Loss Cable Using LMR-240 Coax with HeatShrink



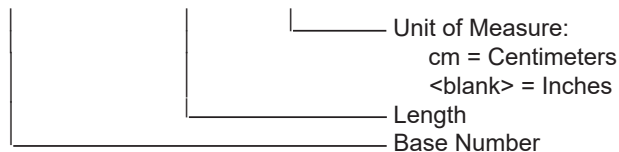
PE3C0466/HS

Typical Performance Data

How to Order

Part Number Configuration:

PE3C0466/HS - xx uu



Example: PE3C0466/HS-12 = 12 inches long cable
PE3C0466/HS-100cm = 100 cm long cable

N Male Right Angle to N Male Low Loss Cable Using LMR-240 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.

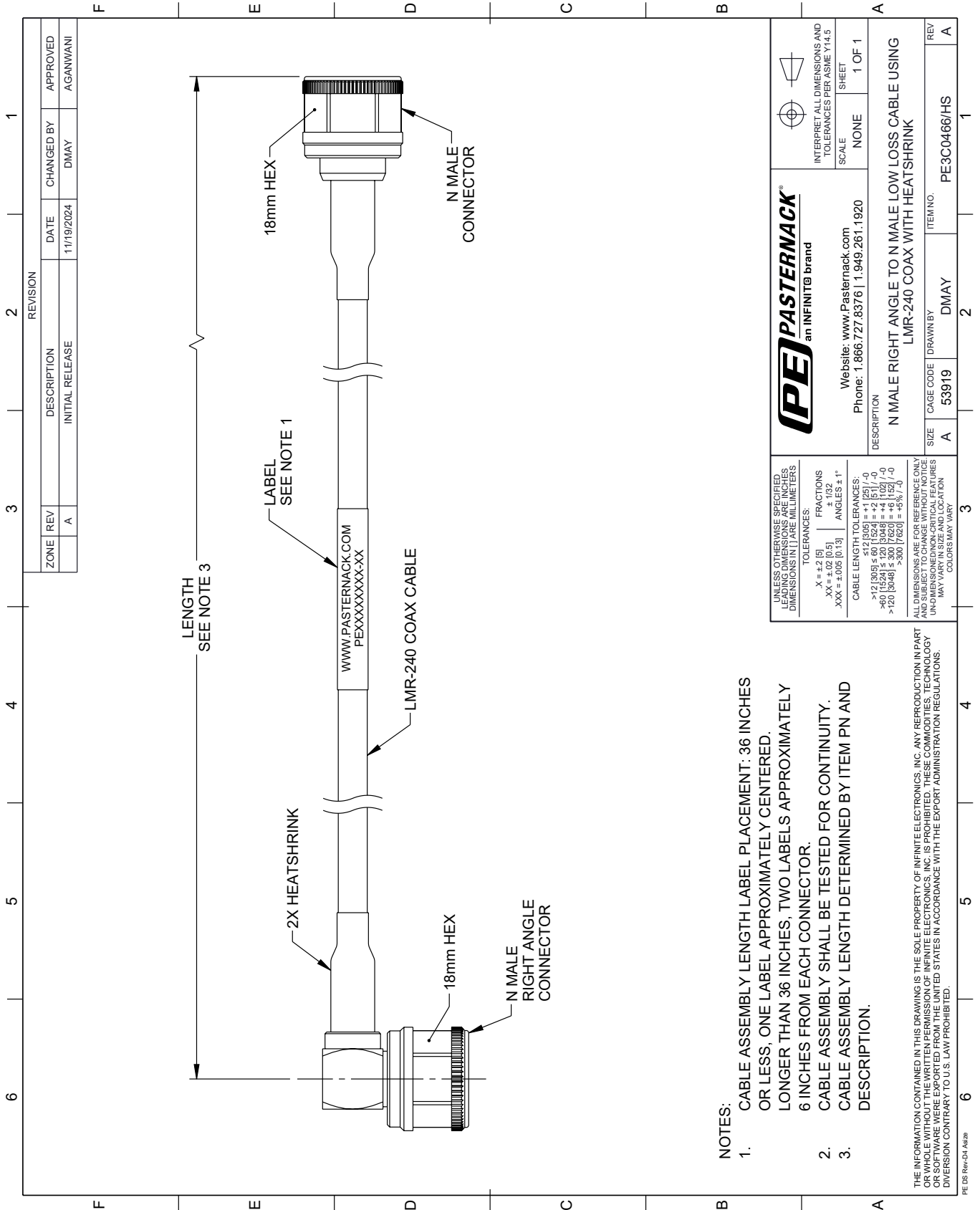
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Right Angle to N Male Low Loss Cable Using LMR-240 Coax with HeatShrink PE3C0466/HS](#)

URL: <https://www.pasternack.com/n-male-right-angle-to-n-male-low-loss-cable-using-lmr-240-with-heatshrink-pe3c0466-hs-p.aspx>

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PE3C0466/HS CAD Drawing

N Male Right Angle to N Male Low Loss Cable Using LMR-240 Coax with HeatShrink



| REVISION | | DATE | CHANGED BY | APPROVED |
|-----------------|-----|------------|------------|----------|
| ZONE | REV | | | |
| | A | 11/19/2024 | DMAY | AGANWANI |
| DESCRIPTION | | | | |
| INITIAL RELEASE | | | | |

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Phone: 1.866.727.8376 | 1.949.261.1920

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

DESCRIPTION: N MALE RIGHT ANGLE TO N MALE LOW LOSS CABLE USING LMR-240 COAX WITH HEATSHRINK

| | | | | | |
|------|---|-----------|------|----------|-------------|
| SIZE | A | CAGE CODE | DMAY | ITEM NO. | PE3C0466/HS |
| REV | A | | | | |

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN MILLIMETERS

TOLERANCES:
 .X = ±.2 (5)
 .XX = ±.02 (0.5)
 .XXX = ±.005 (0.13)
 FRACTIONS ± 1/32
 ANGLES ± 1°

CABLE LENGTH TOLERANCES:
 <12 (305) ±.60 (15.24) = ±.2 (5) / -0
 >12 (305) ≤ 60 (1524) = ±.2 (5) / -0
 >60 (1524) ≤ 120 (3048) = ±.4 (10.2) / -0
 >120 (3048) ≤ 300 (7620) = ±.8 (20) / -0
 >300 (7620) = ±.8 (20) / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR THE DIMENSIONS/NON-CRITICAL FEATURES. COLORS MAY VARY.

- NOTES:**
- CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
 - CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
 - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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