



N Male to N Male With Times Connectors Cable 48 Inch Length Using LMR-400 Coax

RF Cable Assemblies Technical Data Sheet

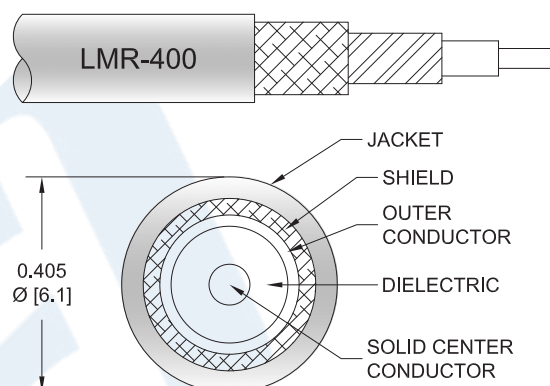
PE3C0105-48

Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: LMR-400

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C0105-48 type N male to type N male 48 inch cable using LMR-400 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-400 coax. The PE3C0105-48 type N male to type N male cable assembly operates to 6 GHz. 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 to N Male With Times Connectors Cable 48 Inch Length Using LMR-400 Coax PE3C0105-48](#)



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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------------|---------|--------------|---------|-----------------|
| Frequency Range | DC | | 6 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 85 | | % |
| RF Shielding | 90 | | | dB |
| Group Delay | | 1.2 [3.94] | | ns/ft [ns/m] |
| Capacitance | | 23.9 [78.41] | | pF/ft [pF/m] |
| Inductance | | 0.06 [0.2] | | uH/ft [uH/m] |
| DC Resistance Inner Conductor | | 1.39 [4.56] | | Ω/1000ft [Ω/Km] |
| DC Resistance Outer Conductor | | 1.65 [5.41] | | 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 | 6 | GHz |
| Insertion Loss (Typ.) | 0.28 | 0.313 | 0.364 | 0.472 | | dB |
| VSWR (Max.) | 1.4:1 | 1.4:1 | 1.4:1 | 1.4:1 | 1.4:1 | |
| Return Loss (Max.) | 15.56 | 15.563 | 15.563 | 15.563 | 15.563 | dB |

Mechanical Specifications

Cable Assembly

| | |
|----------|----------------------|
| Length* | 48 in [121.92 cm] |
| Diameter | 0.81 in [20.57 mm] |
| Weight | 1.544 lbs [700.35 g] |

Cable

| | |
|--------------------------------------|----------------------|
| Cable Type | LMR-400 |
| 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 |

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 With Times Connectors Cable 48 Inch Length Using LMR-400 Coax PE3C0105-48](#)



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| | |
|------------------------------|------------------------|
| Jacket Material | PE, Black |
| Jacket Diameter | 0.405 in [10.29 mm] |
| One Time Minimum Bend Radius | 1 in [25.4 mm] |
| Repeated Minimum Bend Radius | 4 in [101.6 mm] |
| Bending Moment | 0.5 lbs-ft [0.68 N-m] |
| Flat Plate Crush | 40 lbs/in [0.71 Kg/mm] |
| Tensile Strength | 160 lbs [72.57 Kg] |

Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|------------------------|------------------------|
| Type | N Male | N Male |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Specification | 1.27 µm minimum | 1.27 µm minimum |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Body Plating Specification | 2 µm minimum | 2 µm minimum |
| Coupling Nut Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Coupling Nut Plating Specification | 2 µm minimum | 2 µm minimum |
| Hex Size | 20.57 mm | 20.57 mm |
| Torque | 44 in-lbs [4.97 Nm] | 44 in-lbs [4.97 Nm] |

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

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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How to Order

Part Number Configuration:

PE3C0105

- xx

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

Example: PE3C0105-12 = 12 inches long cable
PE3C0105-100cm = 100 cm long cable

N Male to N Male With Times Connectors Cable 48 Inch Length Using LMR-400 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 With Times Connectors Cable 48 Inch Length Using LMR-400 Coax PE3C0105-48](https://www.pasternack.com/n-male-n-male-lmr400-cable-assembly-pe3c0105-48-p.aspx)

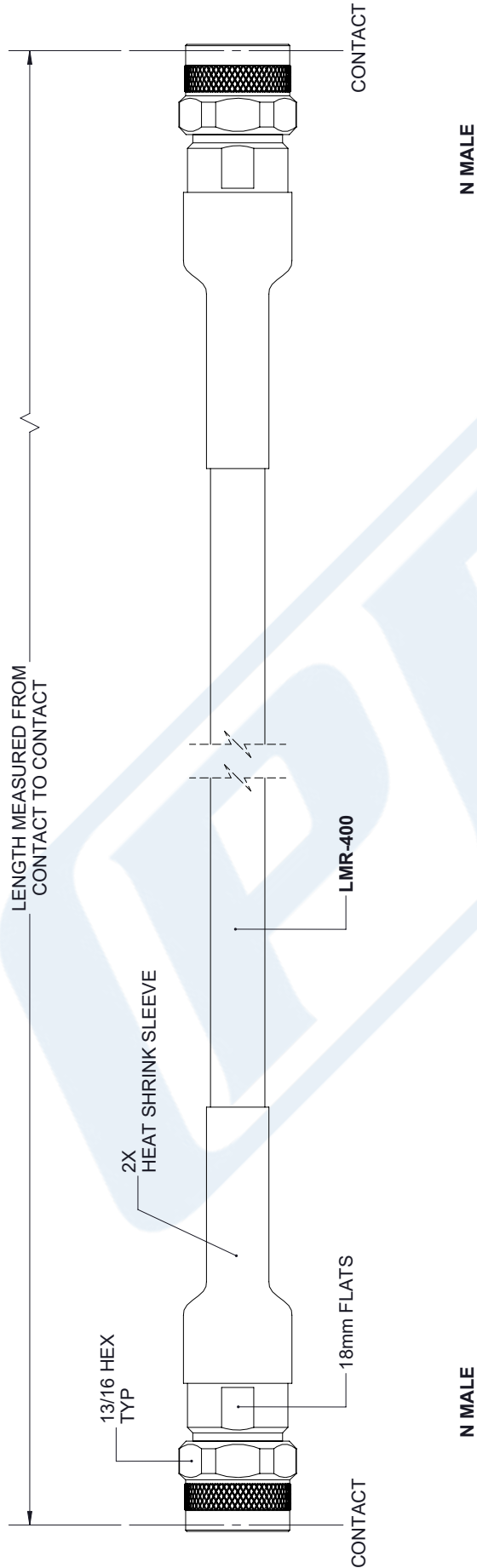
URL: <https://www.pasternack.com/n-male-n-male-lmr400-cable-assembly-pe3c0105-48-p.aspx>

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PE3C0105-48 CAD Drawing

N Male to N Male With Times Connectors Cable 48 Inch Length Using LMR-400 Coax

| REVISIONS | | | |
|-----------|-----------------|-----------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 8/12/2020 | SELLIS |



| | |
|--|--------------|
| UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS | |
| TOLERANCES: | FRACTIONS |
| .X = ± .2 | [.08] |
| .XX = ± .02 | [.51] |
| .XXX = ± .005 | [.13] |
| ANGLES | ± 1° |
| CABLE LENGTH (L) TOLERANCES: | |
| L ≤ 12 [305] | ± .1 [25] |
| 12 [305] < L ≤ 60 [1524] | ± .2 [51] |
| 60 [1524] < L ≤ 120 [3048] | ± .4 [102] |
| 120 [3048] < L ≤ 300 [7620] | ± .6 [152] |
| 300 [7620] < L | ± .8% L / -0 |
| ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. | |

| | |
|---|-----------|
| PE PASTERNAK an INFINITI brand Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 Website: www.pasternack.com E-mail: sales@pasternack.com | |
| SIZE | CAGE CODE |
| A | 53919 |
| DRAWN BY | ITEM NO. |
| K.DANG | PE3C0105 |
| REV | A |

| | |
|---|--------|
| THIRD-ANGLE PROJECTION | |
| | |
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| SHEET | 1 OF 1 |
| SCALE | N/A |