



N Male Right Angle to TNC Male Right Angle Low Loss Cable Using LMR-400 Coax with HeatShrink and 270 Deg. Clock

RF Cable Assemblies Technical Data Sheet

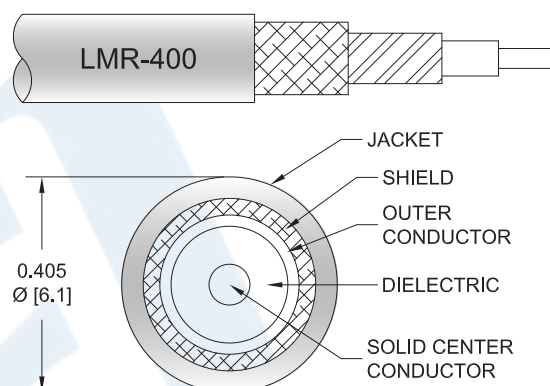
PE3W03732/SP

Configuration

- Connector 1: N Male Right Angle
- Connector 2: TNC Male Right Angle
- 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 PE3W03732/SP type N male right angle to TNC male right angle 12 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 TNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400 coax. The PE3W03732/SP type N male to TNC male cable assembly operates to 6 GHz. The right angle type N and right angle TNC interfaces on the LMR-400 cable allow 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 TNC Male Right Angle Low Loss Cable Using LMR-400 Coax with HeatShrink and 270 Deg. Clock PE3W03732/SP](#)



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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.) | 0.02 | 0.028 | 0.041 | 0.068 | 0.11 | dB/ft |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.289 lbs [131.09 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
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]

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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 Right Angle | TNC Male Right Angle |
| Specification | MIL-STD-348A | |
| Impedance | 50 Ohms | 50 Ohms |
| Mating Cycles | 500 | |
| Contact Material and Plating | Brass, Gold | Brass, Silver |
| Contact Plating Specification | 30 µin minimum | |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Tri-Metal | Brass, Silver |
| Coupling Nut Material and Plating | Brass, Tri-Metal | Brass, Silver |

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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PE3W03732/SP

How to Order

Part Number Configuration:

PE3W03732/SP

- **xx**

uu

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

Example: PE3W03732/SP-12 = 12 inches long cable
PE3W03732/SP-100cm = 100 cm long cable

N Male Right Angle to TNC Male Right Angle Low Loss Cable Using LMR-400 Coax with HeatShrink and 270 Deg. Clock 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.

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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.

PE3W03732/SP CAD Drawing

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