

SMA Male to N Male Low Loss Cable 60 Inch Length Using LMR-400 Coax



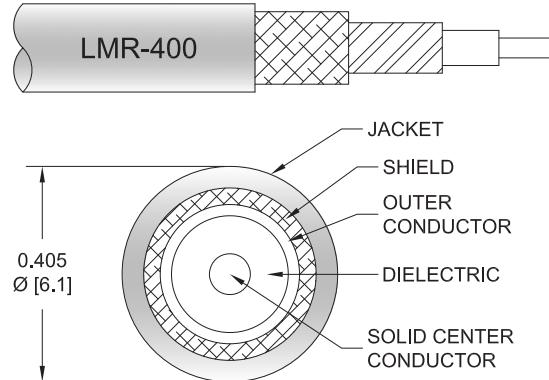
PE3W00832-60

Configuration

- Connector 1: SMA Male
- Connector 2: N Male
- Cable Type: LMR-400
- Coax Flex Type: Flexible

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W00832-60 SMA male to type N male 60 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 SMA to type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400 coax. The PE3W00832-60 SMA 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.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------------|---------|--------------|---------|-----------------------|
| Frequency Range | DC | | 6 | GHz |
| VSWR | | | 1.5:1 | |
| 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] | | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor | | 1.65 [5.41] | | Ohms/1000ft [Ohms/Km] |

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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------|---------|---------|---------|-------|
| Jacket Spark | | | 8,000 | Vrms |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|-----|-----|-----|-------|
| Frequency | 0.25 | 0.5 | 1 | 2.5 | 5.8 | GHz |
| Insertion Loss (Max.) | 0.3 | 0.34 | 0.4 | 0.5 | 0.7 | dB |

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

| | |
|----------------|--------------------|
| Width/Diameter | 0.83 in [21.08 mm] |
| Weight | 0.5 lbs [226.8 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] |
| 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] |

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Connectors

| Description | Connector 1 | Connector 2 |
|-----------------------------------|------------------|----------------------|
| Type | SMA Male | N Male |
| Specification | | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Straight |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Contact Plating Specification | | 15 μ in. minimum |
| Dielectric Type | Teflon | Teflon |
| Body Material and Plating | Brass, Gold | Brass, Tri-Metal |
| Coupling Nut Material and Plating | Brass, Gold | Brass, Tri-Metal |
| Hex Size | 5/16 in | 18 mm |
| Torque | 5 in-lbs 0.57 Nm | 9 in-lbs 1.02 Nm |

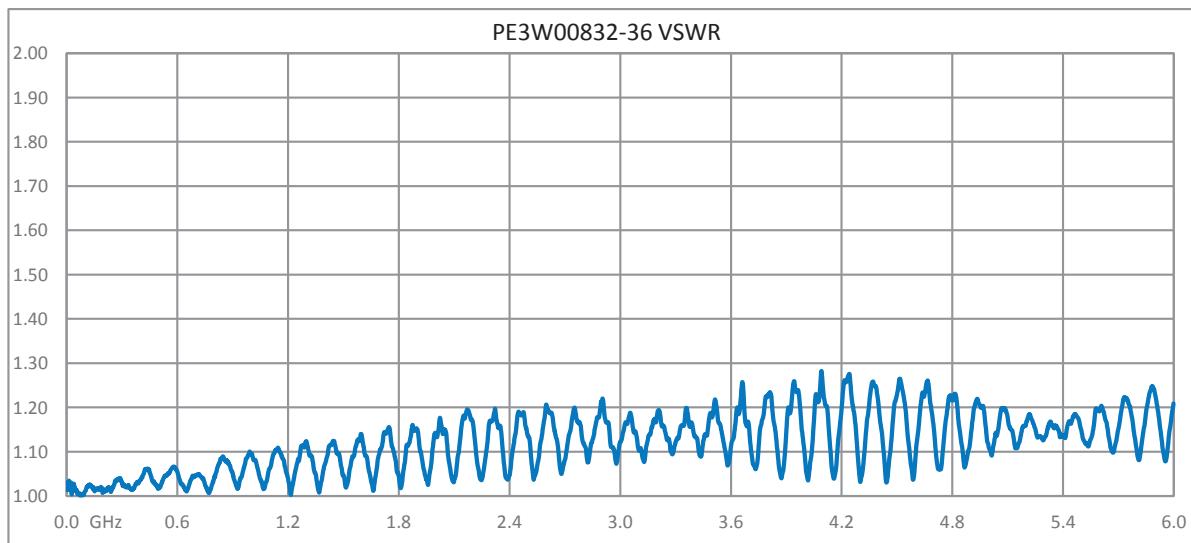
Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data



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PE3W00832-60

How to Order

Part Number Configuration:

PE3W00832 - xx uu

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length
Base Number

Example: PE3W00832-12 = 12 inches long cable
PE3W00832-100cm = 100 cm long cable

SMA Male to N Male Low Loss Cable 60 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: [SMA Male to N Male Low Loss Cable 60 Inch Length Using LMR-400 Coax PE3W00832-60](#)

URL: <https://www.pasternack.com/sma-male-n-male-lmr400-cable-assembly-pe3w00832-60-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.

PE3W00832-60 CAD Drawing

SMA Male to N Male Low Loss Cable 60 Inch Length Using LMR-400 Coax

