



## Reverse Polarity SMA Plug to N Female Low Loss Cable Using LMR-400 Coax

### TECHNICAL DATA SHEET

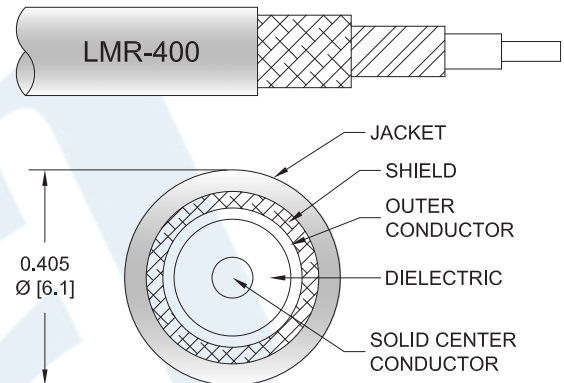
**PE3W10432**

#### Configuration

- Connector 1: SMA Plug Reverse Polarity
- Connector 2: N Female
- Cable Type: LMR-400
- Coax Flex Type: Flexible

#### Features

- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W10432 reverse polarity SMA plug to type N female 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 reverse polarity SMA to type N cable assembly has a plug to female gender configuration with 50 ohm flexible LMR-400 coax. 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: [Reverse Polarity SMA Plug to N Female Low Loss Cable Using LMR-400 Coax PE3W10432](#)



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#### Electrical Specifications

| Description                   | Minimum | Typical      | Maximum | Units                            |
|-------------------------------|---------|--------------|---------|----------------------------------|
| 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]  |         | $\Omega$ /1000ft [ $\Omega$ /Km] |
| DC Resistance Outer Conductor |         | 1.65 [5.41]  |         | $\Omega$ /1000ft [ $\Omega$ /Km] |
| Jacket Spark                  |         |              | 8,000   | Vrms                             |

#### Mechanical Specifications

##### Cable Assembly

Weight 0.25 lbs [113.4 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 Plug Reverse Polarity Threaded | N Female Threaded |
| Impedance                         | 50 Ohms                            | 50 Ohms           |
| Contact Material and Plating      | Beryllium Copper, Gold             | Brass, Gold       |
| Dielectric Type                   | PTFE                               | PTFE              |
| Body Material and Plating         | Brass, Gold                        | Brass, Nickel     |
| Coupling Nut Material and Plating | Brass, Gold                        |                   |
| Hex Size                          | 5/16 inch                          |                   |
| Torque                            | 5 in-lbs [0.57 Nm]                 |                   |

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

**Plotted and Other Data**

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Reverse Polarity SMA Plug to N Female Low Loss Cable Using LMR-400 Coax PE3W10432](#)



## Reverse Polarity SMA Plug to N Female Low Loss Cable Using LMR-400 Coax

### TECHNICAL DATA SHEET

**PE3W10432**

#### How to Order

Part Number Configuration:

**PE3W10432**

- **xx**

**uu**

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

Example: PE3W10432-12 = 12 inches long cable  
PE3W10432-100cm = 100 cm long cable

Reverse Polarity SMA Plug to N Female Low Loss Cable 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.

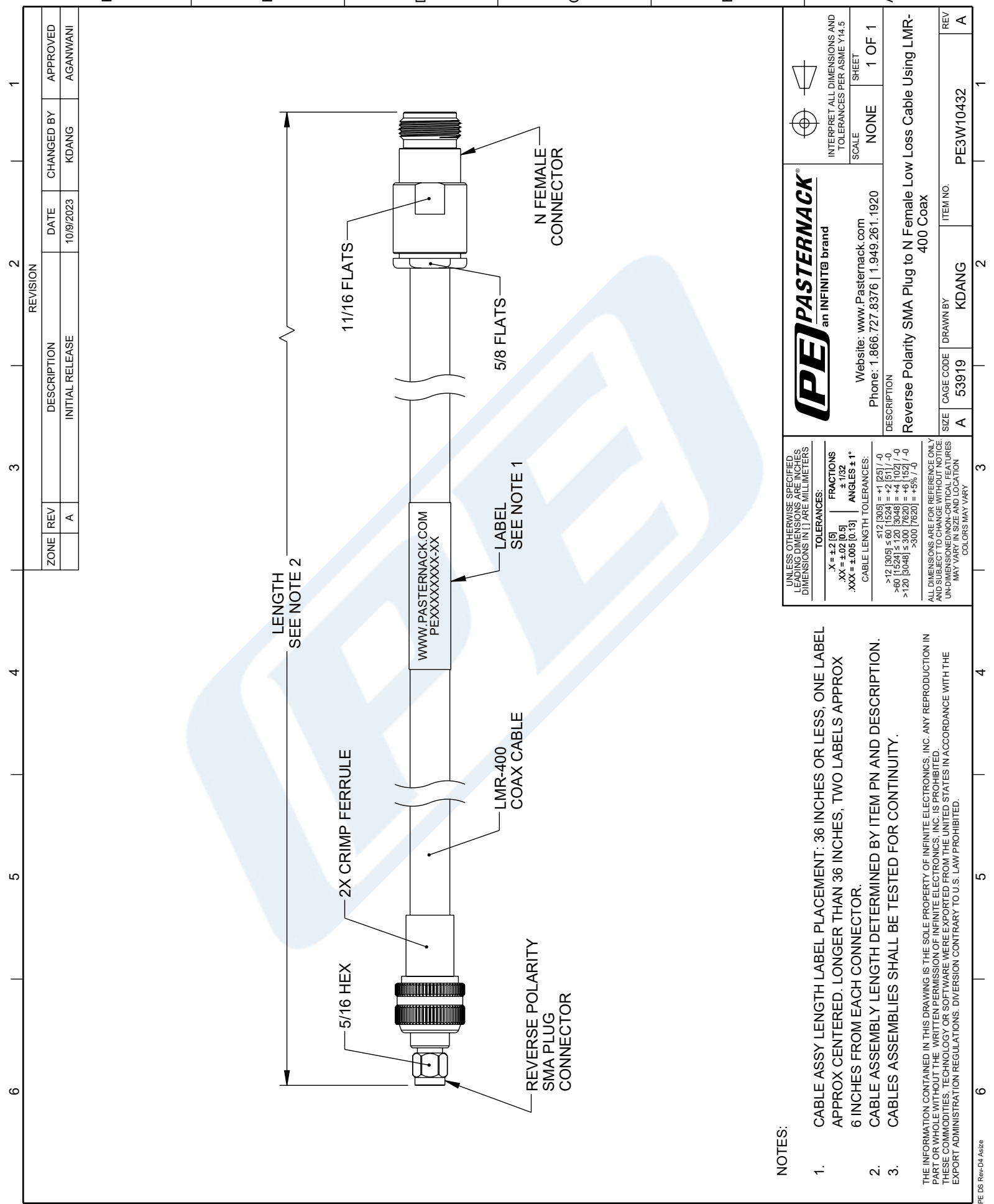
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Reverse Polarity SMA Plug to N Female Low Loss Cable Using LMR-400 Coax PE3W10432](https://www.pasternack.com/reverse-polarity-sma-plug-to-n-female-low-loss-cable-using-lmr-400-pe3w10432-p.aspx)

URL: <https://www.pasternack.com/reverse-polarity-sma-plug-to-n-female-low-loss-cable-using-lmr-400-pe3w10432-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.

PE3W10432 CAD Drawing

Reverse Polarity SMA Plug to N Female Low Loss Cable Using LMR-400 Coax



NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
3. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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|                                                                                                                                                                  |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE IN MILLIMETERS.                                                               |             |
| TOLERANCES:                                                                                                                                                      | FRACTIONS   |
| .X = ±.2 [5]                                                                                                                                                     | ± 1/32      |
| .XX = ±.02 [0.5]                                                                                                                                                 | ± 1/64      |
| .XXX = ±.005 [0.13]                                                                                                                                              | ± .001      |
| CABLE LENGTH TOLERANCES:                                                                                                                                         | ANGLES ± 1° |
| ≤ 12 [305] = ±.1 [25] / -0                                                                                                                                       |             |
| > 12 [305] ≤ 60 [1524] = ±.2 [51] / -0                                                                                                                           |             |
| > 60 [1524] ≤ 120 [3048] = ±.4 [102] / -0                                                                                                                        |             |
| > 120 [3048] ≤ 300 [7620] = ±.8 [203] / -0                                                                                                                       |             |
| > 300 [7620] = ±.9 [229] / -0                                                                                                                                    |             |
| ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UN-DIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY. |             |

|                                                                                        |                       |
|----------------------------------------------------------------------------------------|-----------------------|
| <b>PE PASTERNAK</b><br>an INFINIT <sup>®</sup> brand                                   |                       |
| Website: www.Pasternack.com<br>Phone: 1.866.727.8376   1.949.261.1920                  |                       |
| DESCRIPTION<br>Reverse Polarity SMA Plug to N Female Low Loss Cable Using LMR-400 Coax |                       |
| INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5                                 | SHEET<br>1 OF 1       |
| SCALE<br>NONE                                                                          |                       |
| SIZE<br>A                                                                              | ITEM NO.<br>PE3W10432 |
| CAGE CODE<br>53919                                                                     | DRAWN BY<br>KDANG     |
| REV<br>A                                                                               |                       |

| ZONE | REV | DESCRIPTION     | DATE      | CHANGED BY | APPROVED |
|------|-----|-----------------|-----------|------------|----------|
|      | A   | INITIAL RELEASE | 10/9/2023 | KDANG      | AGANWANI |

| REVISION |   |   |   |   |   |
|----------|---|---|---|---|---|
| 1        | 2 | 3 | 4 | 5 | 6 |