

N Male to SMA Male Right Angle Low Loss Cable 36 Inch Length
Using TCOM-240 Coax with Times Microwave Components



RF Cable Assemblies Technical Data Sheet

PE3C9831-36

Configuration

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

Features

- Max Frequency 6 GHz
- Double Shielded
- PE Jacket
- 500 Mating Cycles

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C9831-36 type N male to SMA male right angle 36 inch cable using TCOM-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 SMA cable assembly has a male to male gender configuration with 50 ohm flexible TCOM-240 coax. The PE3C9831-36 type N male to SMA male cable assembly operates to 6 GHz. The right angle SMA interface on the TCOM-240 cable allows for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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 | | | 1.4:1 | |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency | 0.25 | 0.5 | 1 | 2.5 | 6 | GHz |
| Insertion Loss (Typ.) | 0.41 | 0.48 | 0.58 | 0.88 | 1.09 | dB |

Electrical Specification Notes:

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 SMA Male Right Angle Low Loss Cable 36 Inch Length Using TCOM-240 Coax with Times Microwave Components PE3C9831-36](#)

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The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.25 dB for the SMA male right angle connector and $0.1 * \text{SQRT}(F\text{GHz})$ dB for the N male connector

Mechanical Specifications

Cable Assembly

| | |
|---------|--------------------|
| Length* | 36 in [914.4 mm] |
| Weight | 0.19 lbs [86.18 g] |

Cable

| | |
|--------------------------------------|----------------------------|
| Cable Type | TCOM-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 | Silver Plated Copper Braid |
| Shield Layer 2 | Tinned Copper Braid |
| Jacket Material | PE, Black |
| Jacket Diameter | 0.24 in [6.1 mm] |

Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|---------------------------|-------------------------------|
| Type | N Male Threaded | SMA Male Right Angle Threaded |
| Specification | MIL-STD-348 | MIL-STD-348 |
| Impedance | 50 Ohms | 50 Ohms |
| Mating Cycles | 500 | 500 |
| Contact Material and Plating | Beryllium Copper, Gold | Brass/Phosphor Bronze, Gold |
| Contact Plating Specification | 50 μin minimum | 50 μin minimum |
| Dielectric Type | Teflon | Teflon |
| Body Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Body Plating Specification | 80 μin minimum | 80 μin minimum |
| Coupling Nut Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Coupling Nut Plating Specification | 80 μin minimum | 80 μin minimum |

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: [N Male to SMA Male Right Angle Low Loss Cable 36 Inch Length Using TCOM-240 Coax with Times Microwave Components PE3C9831-36](#)

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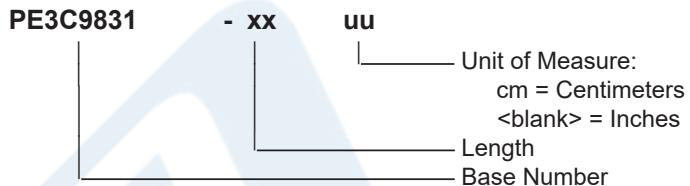


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How to Order

Part Number Configuration:



Example: PE3C9831-12 = 12 inches long cable
PE3C9831-100cm = 100 cm long cable

N Male to SMA Male Right Angle Low Loss Cable 36 Inch Length Using TCOM-240 Coax with Times Microwave Components 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.

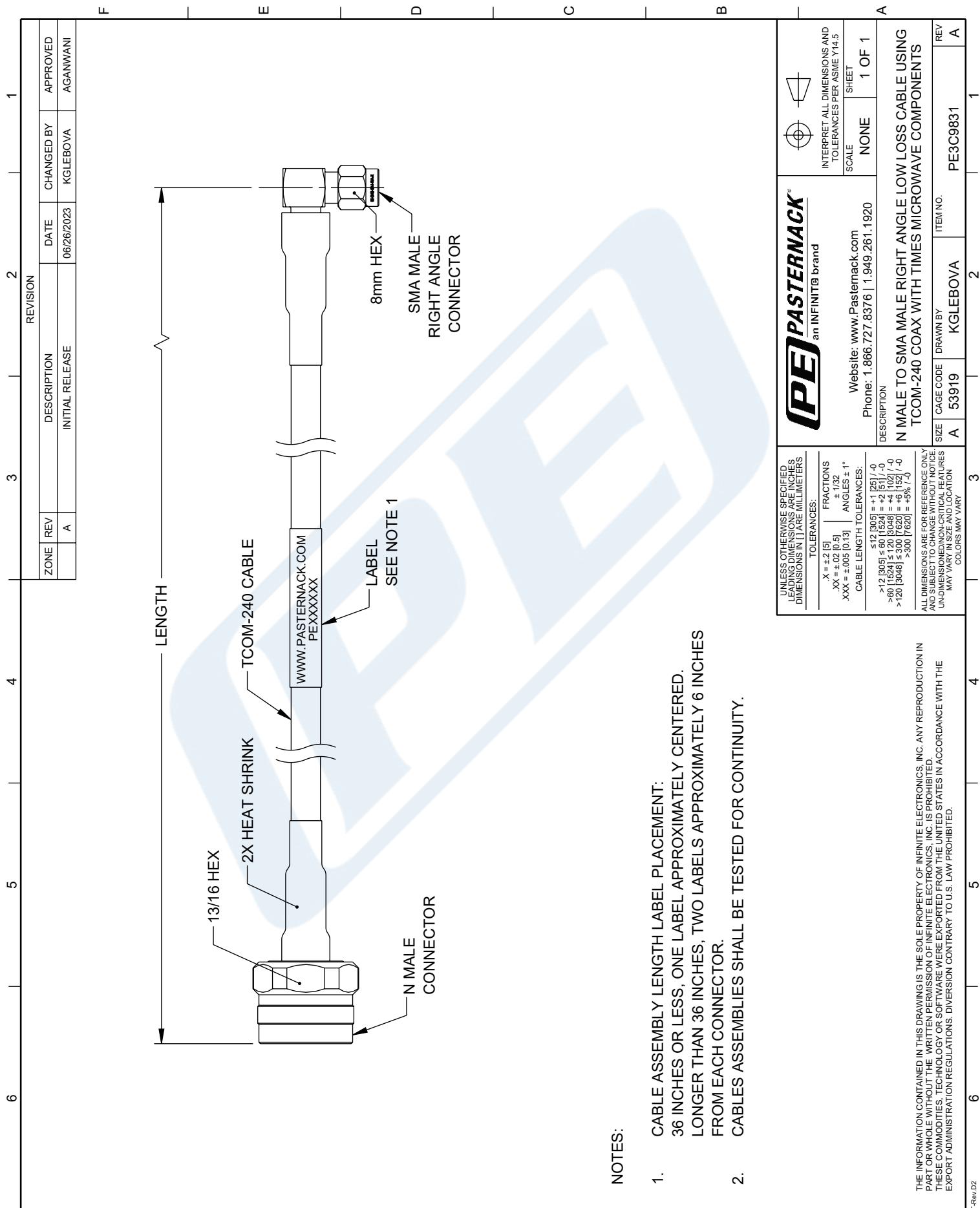
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URL: <https://www.pasternack.com/n-male-to-sma-male-low-loss-cable-36-inch-length-using-tcom-240-pe3c9831-36-p.aspx>

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PE3C9831-36 CAD Drawing

N Male to SMA Male Right Angle Low Loss Cable 36 Inch Length Using TCOM-240 Coax with Times Microwave Components



NOTES:

1. 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.
CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
- 2.

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