



Reverse Polarity SMA Female Bulkhead to TNC Male Right Angle Cable 36 Inch Length Using RG400 Coax

RF Cable Assemblies Technical Data Sheet

PE3W09929-36

Configuration

- Connector 1: SMA Female Reverse Polarity Bulkhead
- Connector 2: TNC Male Right Angle
- Cable Type: RG400

Features

- Max Frequency 3 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W09929-36 reverse polarity SMA female bulkhead to TNC male right angle 36 inch cable using RG400 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 TNC cable assembly has a female to male gender configuration with 50 ohm flexible RG400 coax. The PE3W09929-36 reverse polarity SMA female to TNC male cable assembly operates to 3 GHz. The right angle TNC interface on the RG400 cable allows for easier connections in tight spaces. Our RF cable assembly with SMA bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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.

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 Female Bulkhead to TNC Male Right Angle Cable 36 Inch Length Using RG400 Coax PE3W09929-36](#)



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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|-------------|---------|--------------|
| Frequency Range | DC | | 3 | GHz |
| VSWR | | | 1.45:1 | |
| Velocity of Propagation | | 70 | | % |
| Capacitance | | 32 [104.99] | | pF/ft [pF/m] |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency | 0.1 | 0.25 | 0.5 | 1 | 3 | GHz |
| Insertion Loss (Typ.) | 0.42 | 0.48 | 0.57 | 0.75 | 1.11 | dB |

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

Mechanical Specifications

Cable Assembly

| | |
|----------|--------------------|
| Length* | 36 in [914.4 mm] |
| Diameter | 0.57 in [14.48 mm] |

Cable

| | |
|--------------------------------------|----------------------------|
| Cable Type | RG400 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Stranded |
| Inner Conductor Material and Plating | Copper, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 2 |
| Shield Layer 1 | Silver Plated Copper Braid |
| Shield Layer 2 | Silver Plated Copper Braid |
| Jacket Material | FEP, Tan |
| Jacket Diameter | 0.195 in [4.95 mm] |

Repeated Minimum Bend Radius

1 in [25.4 mm]

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Reverse Polarity SMA Female Bulkhead to TNC Male
Right Angle Cable 36 Inch Length Using RG400 Coax

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PE3W09929-36

Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|--------------------------------------|----------------------|
| Type | SMA Female Reverse Polarity Bulkhead | TNC Male Right Angle |
| Specification | MIL-STD-348 | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Gold | Brass, Gold |
| Contact Plating Specification | MIL-G-45204 | 30 μ in minimum |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |
| Body Plating Specification | QQ-N-290 | 100 μ in minimum |
| Coupling Nut Material and Plating | | Brass, Nickel |
| Coupling Nut Plating Specification | | 100 μ in minimum |

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

Plotted and Other Data

Notes:

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RF Cable Assemblies Technical Data Sheet

PE3W09929-36

How to Order

Part Number Configuration:

PE3W09929

- **xx**

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

Example: PE3W09929-12 = 12 inches long cable
PE3W09929-100cm = 100 cm long cable

Reverse Polarity SMA Female Bulkhead to TNC Male Right Angle Cable 36 Inch Length Using RG400 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.

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URL: <https://www.pasternack.com/sma-female-tnc-male-rg400u-cable-assembly-pe3w09929-36-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.

PE3W09929-36 CAD Drawing
 Reverse Polarity SMA Female Bulkhead to TNC Male Right Angle
 Cable 36 Inch Length Using RG400 Coax

