



SMB Plug Right Angle to BNC Male Cable Using RG188 Coax

RF Cable Assemblies Technical Data Sheet

PE3C3429

Configuration

- Connector 1: SMB Plug Right Angle
- Connector 2: BNC Male
- Cable Type: RG188

Features

- Max Frequency 3 GHz
- PTFE Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C3429 SMB plug right angle to BNC male cable using RG188 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 SMB to BNC cable assembly has a plug to male gender configuration with 50 ohm flexible RG188 coax. The PE3C3429 SMB plug to BNC male cable assembly operates to 3 GHz. The right angle SMB interface on the RG188 cable allows for easier connections in tight spaces.

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 | | 3 | GHz |
| VSWR | | | 1.4:1 | |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMB Plug Right Angle to BNC Male Cable Using RG188 Coax PE3C3429](#)



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Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-------|--------|--------|--------|--------|-------|
| Frequency | 0.1 | 0.25 | 0.5 | 1 | 3 | GHz |
| Insertion Loss (Max.) | 1.05 | 1.13 | | | | dB/ft |
| | 3.44 | 3.71 | | | | dB/m |
| Insertion Loss (Typ.) | 0.25 | 0.325 | | | | dB/ft |
| | 0.82 | 1.07 | | | | dB/m |
| VSWR (Max.) | 1.4:1 | 1.4:1 | 1.4:1 | 1.4:1 | 1.4:1 | |
| Return Loss (Max.) | 15.56 | 15.563 | 15.563 | 15.563 | 15.563 | dB |

Mechanical Specifications

Cable Assembly

Diameter 0.57 in [14.48 mm]

Cable

Cable Type RG188
 Impedance 50 Ohms
 Inner Conductor Type Stranded
 Inner Conductor Material and Plating Copper Clad Steel, Silver
 Dielectric Type PTFE
 Number of Shields 1
 Shield Layer 1 Silver Plated Copper Braid
 Jacket Material PTFE, White
 Jacket Diameter 0.11 in [2.79 mm]

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Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------------|------------------------|------------------|
| Type | SMB Plug Right Angle | BNC Male |
| Specification | MIL-STD-348A | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Beryllium Copper, Gold | Brass, Gold |
| Contact Plating Specification | 30 µin minimum | 50µ in. minimum |
| Dielectric Type | PTFE | Teflon |
| Outer Conductor Material and Plating | Brass, Nickel | |
| Outer Conductor Plating Specification | 100 µin minimum | |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |
| Body Plating Specification | 100 µin minimum | 100µ in. minimum |
| Coupling Nut Material and Plating | | Brass, Nickel |
| Coupling Nut Plating Specification | | 100µ in. minimum |

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8"$, whichever is greater.

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

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMB Plug Right Angle to BNC Male Cable Using RG188 Coax PE3C3429](#)



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RF Cable Assemblies Technical Data Sheet

PE3C3429

How to Order

Part Number Configuration:

PE3C3429

- **xx**

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

Example: PE3C3429-12 = 12 inches long cable
PE3C3429-100cm = 100 cm long cable

SMB Plug Right Angle to BNC Male Cable Using RG188 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.

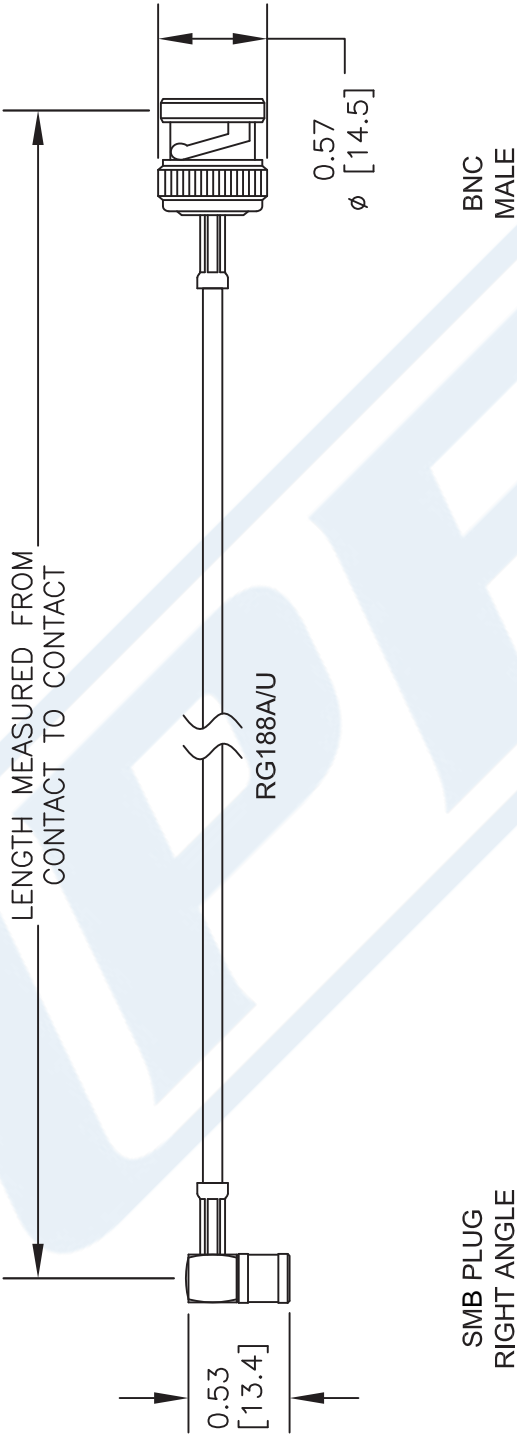
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMB Plug Right Angle to BNC Male Cable Using RG188 Coax PE3C3429](https://www.pasternack.com/smb-plug-bnc-male-rg188au-cable-assembly-pe3c3429-p.aspx)

URL: <https://www.pasternack.com/smb-plug-bnc-male-rg188au-cable-assembly-pe3c3429-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.

PE3C3429 CAD Drawing

SMB Plug Right Angle to BNC Male Cable Using RG188 Coax



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THE ENGINEER'S RF SOURCE

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