

75 Ohm BNC Female Bulkhead to 75 Ohm SMB Plug Right Angle Cable Using 95 Ohm RG180 Coax



PE3C8183

Configuration

- Connector 1: BNC Female Bulkhead
- Connector 2: SMB Plug Right Angle
- Cable Type: RG180
- Coax Flex Type: Flexible

Features

- 70% Phase Velocity
- FEP Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C8183 75 ohm BNC female bulkhead to 75 ohm SMB plug right angle cable using 95 ohm RG180 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 BNC to SMB cable assembly has a female to plug gender configuration with 95 ohm flexible RG180 coax. The right angle SMB interface on the RG180 cable allows for easier connections in tight spaces. Our RF cable assembly with BNC 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.

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
Velocity of Propagation		70		%
Capacitance		17.4 [57.09]		pF/ft [pF/m]
Jacket Spark			2,000	Vrms

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.076 lbs [34.47 g]

Cable

Cable Type	RG180
Impedance	95 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE

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Number of Shields	1
Shield Layer 1	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.141 in [3.58 mm]

Connectors

Description	Connector 1	Connector 2
Type	BNC Female Bulkhead	SMB Plug Right Angle
Specification		MIL-STD-348
Impedance	75 Ohms	75 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Brass, Gold	Gold
Contact Plating Specification		MIL-G-45204
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Gold
Body Plating Specification		MIL-G-45204

Environmental Specifications

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

Plotted and Other Data

Notes:

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PE3C8183

Typical Performance Data

How to Order

Part Number Configuration:

PE3C8183

- xx

uu

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

Length

Base Number

Example: PE3C8183-12 = 12 inches long cable
PE3C8183-100cm = 100 cm long cable

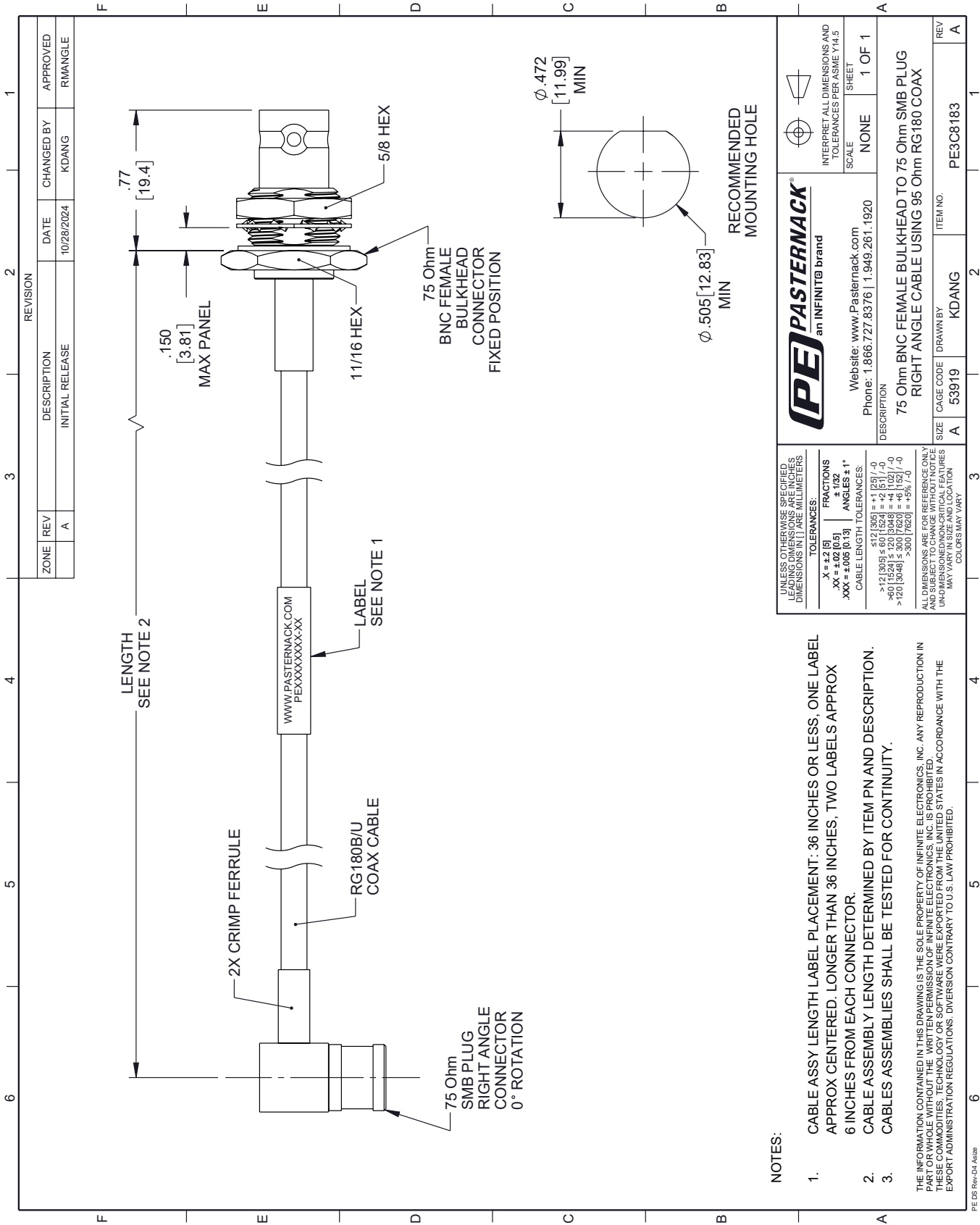
75 Ohm BNC Female Bulkhead to 75 Ohm SMB Plug Right Angle Cable Using 95 Ohm RG180 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm BNC Female Bulkhead to 75 Ohm SMB Plug Right Angle Cable Using 95 Ohm RG180 Coax PE3C8183](https://www.pasternack.com/75-ohm-bnc-female-bulkhead-to-75-ohm-smb-plug-right-angle-cable-using-rg180-pe3c8183-p.aspx)

URL: <https://www.pasternack.com/75-ohm-bnc-female-bulkhead-to-75-ohm-smb-plug-right-angle-cable-using-rg180-pe3c8183-p.aspx>

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PE3C8183 CAD Drawing
75 Ohm BNC Female Bulkhead to 75 Ohm SMB Plug Right Angle Cable Using 95 Ohm RG180 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.

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:	
.X = ±.2 [5]	FRACTIONS ± 1/32
.XX = ±.02 [0.5]	ANGLES ± 1°
.XXX = ±.005 [0.13]	CABLE LENGTH TOLERANCES:

SIZE	LENGTH	TOLERANCE
≤ 12 [305]	±.01 [0.25]	
> 12 [305] ≤ 60 [1524]	±.02 [0.51]	
> 60 [1524] ≤ 120 [3048]	±.04 [1.02]	
> 120 [3048] ≤ 300 [7620]	±.06 [1.52]	

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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PE DS Rev-D4 Asize

REVISION	
ZONE	REV
	A
DESCRIPTION	
INITIAL RELEASE	
DATE	
10/28/2024	
CHANGED BY	
KDANG	
APPROVED	
RMANGLE	

PASTERNAK® an INFINITE brand	
Website: www.Pasternack.com	
Phone: 1.866.727.8376 1.949.261.1920	
INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
SCALE	SHEET
NONE	1 OF 1

DESCRIPTION	
75 Ohm BNC FEMALE BULKHEAD TO 75 Ohm SMB PLUG RIGHT ANGLE CABLE USING 95 Ohm RG180 COAX	
SIZE	CAGE CODE
A	53919
DRAWN BY	ITEM NO.
KDANG	PE3C8183
REV	A