

MMCX Plug Right Angle to SMB Jack Bulkhead Cable Using RG178 Coax

PE37733

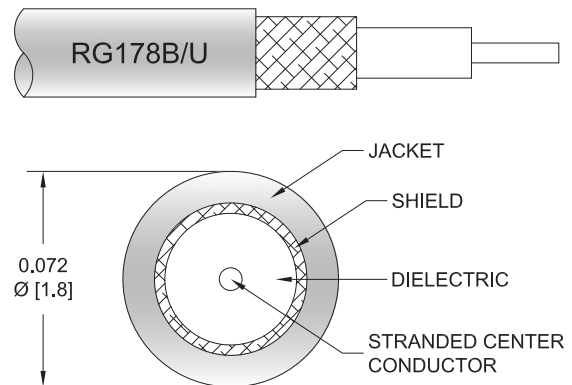


Configuration

- Connector 1: MMCX Plug Right Angle
- Connector 2: SMB Jack Bulkhead
- Cable Type: RG178
- Coax Flex Type: Flexible

Features

- Max Frequency 2 GHz
- 69.5% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE37733 MMCX plug right angle to SMB jack bulkhead cable using RG178 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 MMCX to SMB cable assembly has a plug to jack gender configuration with 50 ohm flexible RG178 coax. The PE37733 MMCX plug to SMB jack cable assembly operates to 2 GHz. The right angle MMCX interface on the RG178 cable allows for easier connections in tight spaces. Our RF cable assembly with SMB 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
Frequency Range	DC		2	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			170	Vrms

Specifications by Frequency

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PE37733

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			100	250	500	1000	2000	MHz	
PE37733	Custom Lengths Available	Insertion Loss (Typ.)	0.14	0.21	0.306	0.447	0.615	dB/ft	
			0.46	0.69	1.01	1.47	2.02	dB/m	
PE37733-6	6 inch	Insertion Loss (Typ.)	0.37	0.41	0.46	0.53	0.61	dB	0.02
PE37733-9	9 inch	Insertion Loss (Typ.)	0.41	0.46	0.53	0.64	0.77	dB	0.021
PE37733-12	12 inch	Insertion Loss (Typ.)	0.44	0.51	0.61	0.75	0.92	dB	0.022
PE37733-24	24 inch	Insertion Loss (Typ.)	0.58	0.72	0.92	1.2	1.53	dB	0.028
PE37733-36	36 inch	Insertion Loss (Typ.)	0.72	0.93	1.22	1.65	2.15	dB	0.033

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.2 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.022 pounds
Additional Weight per Inch:	0.00042 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.022 lbs [9.98 g]

Cable

Cable Type	RG178
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	FEP, Tan
Jacket Diameter	0.072 in [1.83 mm]
Repeated Minimum Bend Radius	0.393 in [9.98 mm]

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PE37733



Connectors

Description	Connector 1	Connector 2
Type	MMCX Plug Right Angle	SMB Jack Bulkhead
Specification	BS EN 122340	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	30 µin minimum
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Gold	Brass, Nickel
Body Plating Specification	3 µin minimum	100 µin minimum

Environmental Specifications

Operating Range Temperature -40 to +60 deg C

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

Plotted and Other Data

Notes:
Values at 25°C, sea level.

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PE37733



Typical Performance Data

How to Order

Part Number Configuration:

PE37733

- xx

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE37733-12 = 12 inches long cable
PE37733-100cm = 100 cm long cable

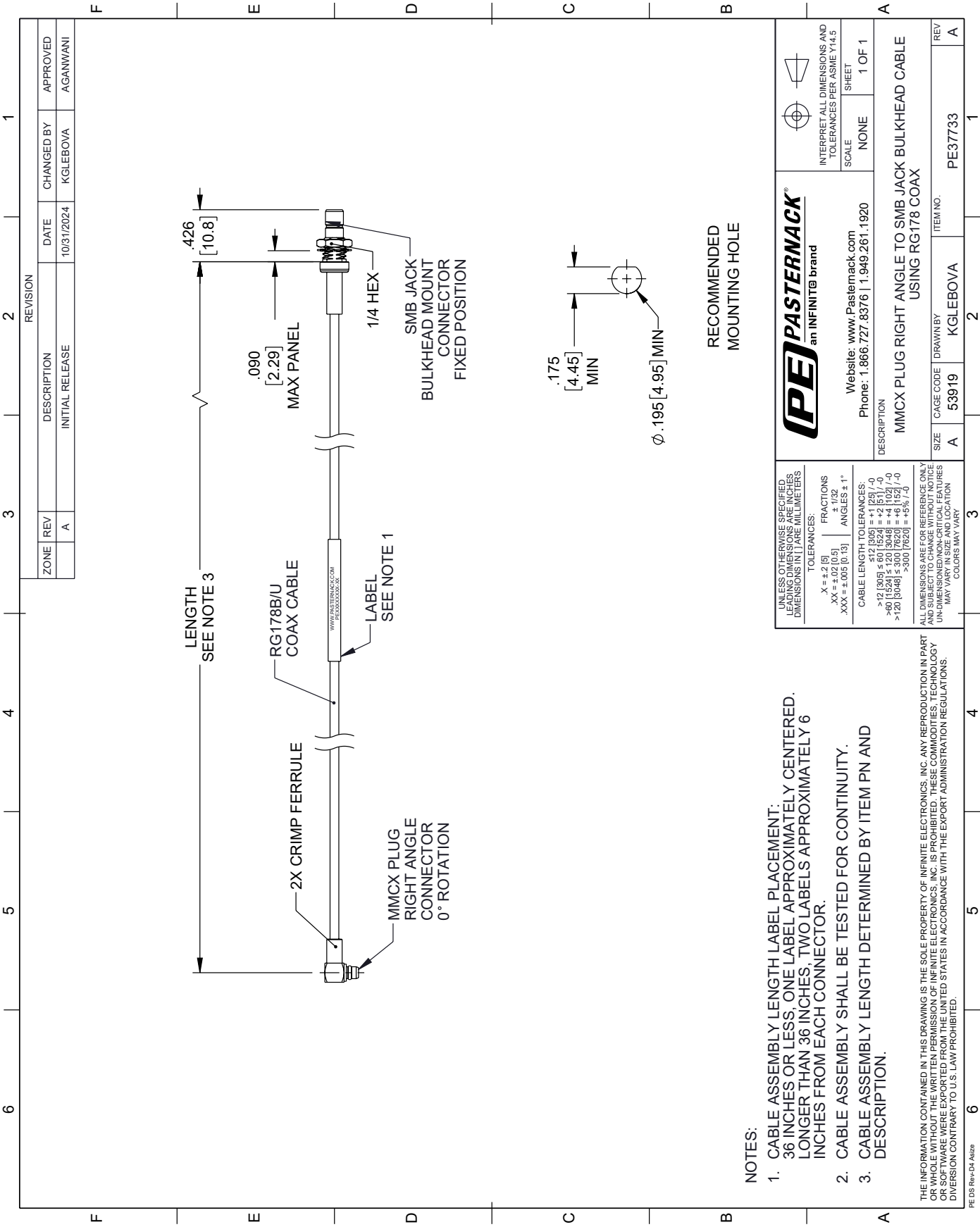
MMCX Plug Right Angle to SMB Jack Bulkhead Cable Using RG178 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MMCX Plug Right Angle to SMB Jack Bulkhead Cable Using RG178 Coax PE37733](https://www.pasternack.com/mmcx-plug-right-angle-to-smb-jack-bulkhead-cable-using-rg178-pe37733-p.aspx)

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PE37733 CAD Drawing
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- 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.
- 2. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
- 3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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