



RF Cable Assemblies Technical Data Sheet

PE3C3821

Configuration

Connector 1: SMA Female BulkheadConnector 2: MMCX Plug Right Angle

Cable Type: RG178

Features

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

Applications

· General Purpose

· Laboratory Use

Description

Pasternack's PE3C3821 SMA female bulkhead to MMCX plug right angle 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 SMA to MMCX cable assembly has a female to plug gender configuration with 50 ohm flexible RG178 coax. The PE3C3821 SMA female to MMCX plug cable assembly operates to 3 GHz. The right angle MMCX interface on the RG178 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.

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	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
				·

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Female Bulkhead to MMCX Plug Right Angle Cable Using RG178 Coax PE3C3821

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451





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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	3	GHz
Insertion Loss (Max.)	0.21 0.69	0.31 1.02	0.44 1.44	0.7 2.3	0.78 2.56	dB/ft dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.3dB connector loss.

Mechanical Specifications

Cable Assembly

Diameter 0.433 in [11 mm]

Cable

Cable Type Impedance

Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type

Number of Shields Shield Layer 1

Jacket Material

Jacket Diameter

Repeated Minimum Bend Radius

0.400 111 [11 11111]

RG178 50 Ohms Stranded

Copper Clad Steel, Silver

PTFE

1

Silver Plated Copper Braid

FEP, Tan

0.072 in [1.83 mm]

0.4 in [10.16 mm]

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Connectors

Description	Connector 1	Connector 2 MMCX Plug Right Angle	
Туре	SMA Female Bulkhead		
Specification		BS EN 122340	
Impedance	50 Ohms	50 Ohms	
Mating Cycles	500		
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold	
Contact Plating Specification		30 μin minimum	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating	Brass, Gold		
Body Material and Plating	Brass, Gold	Brass, Gold	
Body Plating Specification		3 µin minimum	
Coupling Nut Material and Plating	Brass, Gold		

Mechanical Specification Notes:

Environmental Specifications

Temperature

Operating Range -55 to +155 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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^{*}All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.

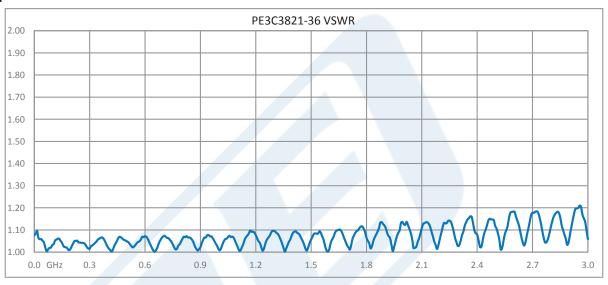




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Typical Performance Data



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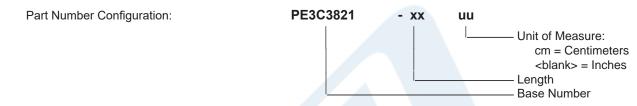




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How to Order



Example: PE3C3821-12 = 12 inches long cable

PE3C3821-100cm = 100 cm long cable

SMA Female Bulkhead to MMCX Plug Right Angle 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.

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URL: https://www.pasternack.com/sma-female-mmcx-plug-rg178bu-cable-assembly-pe3c3821-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.

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PE3C3821 CAD DrawingSMA Female Bulkhead to MMCX Plug Right Angle Cable Using RG178 Coax

