

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

PE3C5386

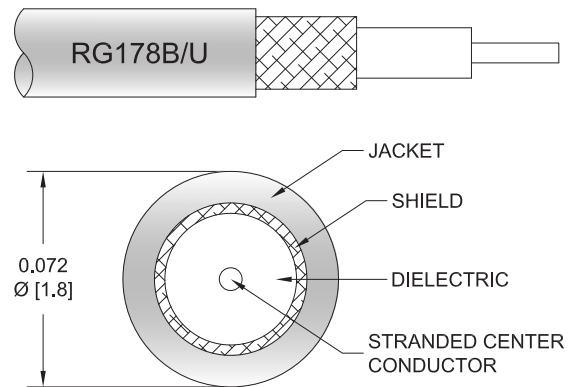


Configuration

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

Features

- Max Frequency 2 GHz
- 70% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C5386 SMB jack bulkhead to SSMC 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 SMB to SSMC cable assembly has a jack to plug gender configuration with 50 ohm flexible RG178 coax. The PE3C5386 SMB jack to SSMC plug cable assembly operates to 2 GHz. The right angle SSMC 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		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			250	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	500	1000	2000	MHz	
PE3C5386	Custom Lengths Available	Insertion Loss (Typ.)	0.14	0.21	0.24	0.44	0.614	dB/ft	
			0.46	0.69	0.78	1.46	2.02	dB/m	
PE3C5386-6	6 inch	Insertion Loss (Typ.)	0.47	0.51	0.52	0.63	0.71	dB	0.019
PE3C5386-9	9 inch	Insertion Loss (Typ.)	0.51	0.56	0.58	0.74	0.87	dB	0.02
PE3C5386-12	12 inch	Insertion Loss (Typ.)	0.54	0.61	0.64	0.85	1.02	dB	0.021
PE3C5386-24	24 inch	Insertion Loss (Typ.)	0.68	0.82	0.88	1.29	1.63	dB	0.027
PE3C5386-36	36 inch	Insertion Loss (Typ.)	0.82	1.03	1.11	1.74	2.25	dB	0.032

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:	0.1 dB
Loss due to Connector 2:	0.3 dB
Base Weight:	0.021 pounds
Additional Weight per Inch:	0.00042 pounds

Mechanical Specifications

Cable Assembly

Weight	0.021 lbs [9.53 g]
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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	0.4 in [10.16 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMB Jack Bulkhead	SSMC Plug Right Angle
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Mating Cycles		500
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	30 µin minimum	MIL-G-45204
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Gold
Body Plating Specification	100 µin minimum	MIL-G-45204
Coupling Nut Material and Plating		Beryllium Copper, Gold
Coupling Nut Plating Specification		MIL-G-45204
Torque		2 in-lbs 0.23 Nm

Environmental Specifications

Operating Range Temperature -40 to +60 deg C

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

Plotted and Other Data

Notes:

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PE3C5386

Typical Performance Data

How to Order

Part Number Configuration:

PE3C5386

- xx

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C5386-12 = 12 inches long cable
PE3C5386-100cm = 100 cm long cable

SMB Jack Bulkhead to SSMC 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMB Jack Bulkhead to SSMC Plug Right Angle Cable Using RG178 Coax PE3C5386](#)

URL: <https://www.pasternack.com/smb-jack-bulkhead-to-ssmc-plug-cable-using-rg178-pe3c5386-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3C5386 CAD Drawing
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