

MMCX Plug to SMB Plug Right Angle Cable Using RG174 Coax



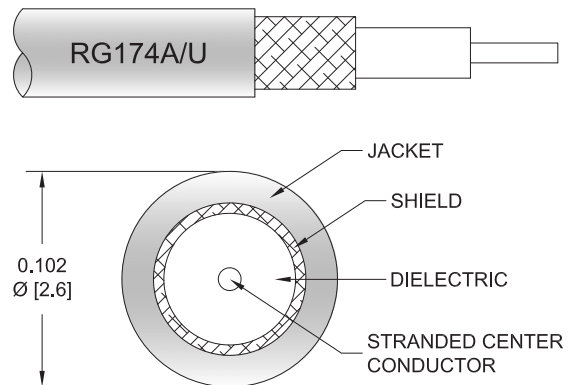
PE35896

Configuration

- Connector 1: MMCX Plug
- Connector 2: SMB Plug Right Angle
- Cable Type: RG174
- Coax Flex Type: Flexible

Features

- Max Frequency 1 GHz
- 66% Phase Velocity
- PVC Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE35896 MMCX plug to SMB plug right angle cable using RG174 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 plug gender configuration with 50 ohm flexible RG174 coax. The PE35896 MMCX plug to SMB plug cable assembly operates to 1 GHz. The right angle SMB interface on the RG174 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		1,000	MHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	100	250	500	1000	MHz	
PE35896	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.14	0.21	0.32	dB/ft	
			0.28	0.45	0.7	1.05	dB/m	
PE35896-12	12 inch	Insertion Loss (Typ.)	0.39	0.44	0.52	0.62	dB	0.029
PE35896-24	24 inch	Insertion Loss (Typ.)	0.47	0.58	0.73	0.94	dB	0.038
PE35896-36	36 inch	Insertion Loss (Typ.)	0.56	0.72	0.94	1.26	dB	0.047
PE35896-48	48 inch	Insertion Loss (Typ.)	0.64	0.85	1.15	1.58	dB	0.056
PE35896-72	72 inch	Insertion Loss (Typ.)	0.81	1.13	1.57	2.22	dB	0.074

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:	0.2 dB
Base Weight:	0.029 pounds
Additional Weight per Inch:	0.00075 pounds

Mechanical Specifications

Cable Assembly

Weight	0.029 lbs [13.15 g]
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Cable

Cable Type	RG174
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel
Dielectric Type	PE (LD)
Number of Shields	1
Shield Layer 1	Tinned Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	0.1 in [2.54 mm]

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Connectors

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

Environmental Specifications

Operating Range Temperature -40 to +80 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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PE35896

Typical Performance Data

How to Order

Part Number Configuration:

PE35896

- xx

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

Length

Base Number

Example: PE35896-12 = 12 inches long cable
PE35896-100cm = 100 cm long cable

MMCX Plug to SMB Plug Right Angle Cable Using RG174 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 to SMB Plug Right Angle Cable Using RG174 Coax PE35896](#)

URL: <https://www.pasternack.com/mmcx-plug-to-smb-plug-cable-using-rg174-pe35896-p.aspx>

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PE35896 CAD Drawing

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