

75 Ohm MCX Plug to 75 Ohm Mini SMB Plug Cable Using 75 Ohm RG179 Coax



PE3W01727

Configuration

- Connector 1: MCX Plug
- Connector 2: Mini SMB Plug
- Cable Type: RG179
- Coax Flex Type: Flexible

Features

- Max Frequency 1 GHz
- 70% Phase Velocity
- FEP Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W01727 75 ohm MCX plug to 75 ohm Mini SMB plug cable using 75 ohm RG179 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 MCX to Mini SMB cable assembly has a plug to plug gender configuration with 75 ohm flexible RG179 coax. The PE3W01727 MCX plug to Mini SMB plug cable assembly operates to 1 GHz.

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		70		%
Capacitance		19.4 [63.65]		pF/ft [pF/m]
Operating Voltage (AC)			250	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
			Frequency	100	250	500	1000	
PE3W01727	Custom Lengths Available	Insertion Loss (Typ.)	0.09	0.14	0.203	0.3	dB/ft	
			0.3	0.45	0.67	0.99	dB/m	
PE3W01727-12	12 inch	Insertion Loss (Typ.)	0.29	0.34	0.41	0.5	dB	0.033
PE3W01727-24	24 inch	Insertion Loss (Typ.)	0.38	0.48	0.61	0.8	dB	0.042
PE3W01727-36	36 inch	Insertion Loss (Typ.)	0.47	0.62	0.81	1.1	dB	0.051
PE3W01727-48	48 inch	Insertion Loss (Typ.)	0.56	0.75	1.02	1.4	dB	0.06
PE3W01727-72	72 inch	Insertion Loss (Typ.)	0.74	1.03	1.42	2	dB	0.078

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:	0.1 dB
Base Weight:	0.033 pounds
Additional Weight per Inch:	0.00075 pounds

Mechanical Specifications

Cable Assembly

Weight 0.033 lbs [14.97 g]

Cable

Cable Type	RG179
Impedance	75 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	0.1 in [2.54 mm]
Repeated Minimum Bend Radius	0.394 in [10.01 mm]

Connectors

Description	Connector 1	Connector 2
Type	MCX Plug	Mini SMB Plug
Impedance	75 Ohms	75 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	30 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Nickel
Body Plating Specification	3 µin minimum	100 µin minimum

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Environmental Specifications

Operating Range Temperature -55 to +155 deg C

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

Plotted and Other Data

Notes:

Typical Performance Data

How to Order

Part Number Configuration: **PE3W01727 - xx uu**

PE3W01727: Base Number
 - xx: Length
 uu: Unit of Measure:
 cm = Centimeters
 <blank> = Inches

Example: PE3W01727-12 = 12 inches long cable
 PE3W01727-100cm = 100 cm long cable

75 Ohm MCX Plug to 75 Ohm Mini SMB Plug Cable Using 75 Ohm RG179 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.

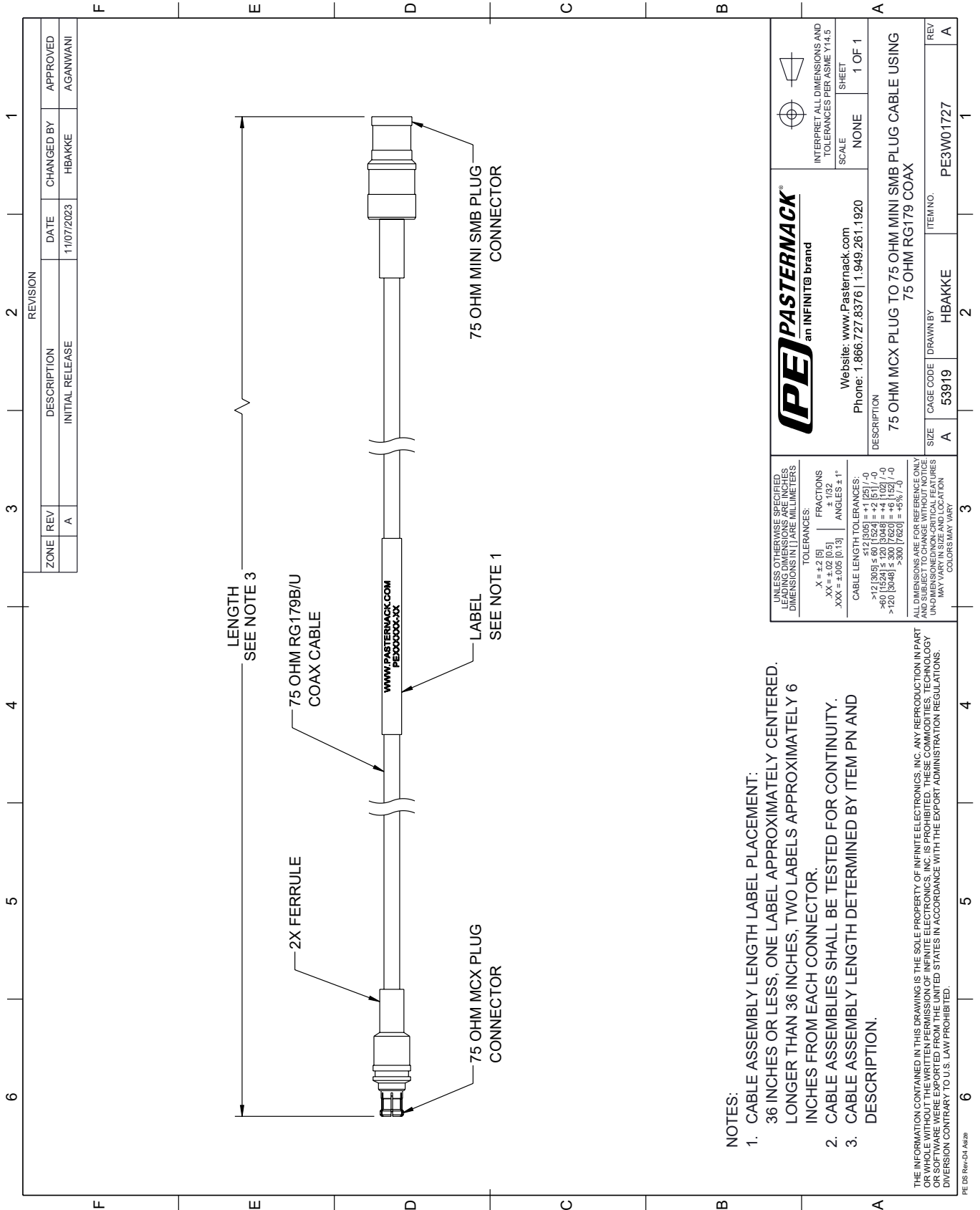
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm MCX Plug to 75 Ohm Mini SMB Plug Cable Using 75 Ohm RG179 Coax PE3W01727](#)

URL: <https://www.pasternack.com/75-ohm-mcx-plug-to-75-ohm-mini-smb-plug-cable-using-rg179-pe3w01727-p.aspx>

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PE3W01727 CAD Drawing

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NOTES:

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 ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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PE DS Rev-04 Add2

PASTERNAK an INFINITE brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		REV: A ITEM NO: PE3W01727
DESCRIPTION: 75 OHM MCX PLUG TO 75 OHM MINI SMB PLUG CABLE USING 75 OHM RG179 COAX		
SIZE: A	CAGE CODE: 53919	DRAWN BY: HBAKKE

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

TOLERANCES:
 .X = ±.2 [5]
 .XX = ±.02 [0.5]
 .XXX = ±.005 [0.13]

FRACTIONS: ± 1/32
 ANGLES: ± 1°

CABLE LENGTH TOLERANCES:
 <12 [305] ≤ 60 [1524] = ±.1 [2.5] / -0
 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0
 >120 [3048] ≤ 300 [7620] = ±.6 [15.2] / -0
 >300 [7620] = ±.8 [20.3] / -0

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