

MCX Plug Right Angle to SMB Plug Right Angle Cable Using RG316 Coax



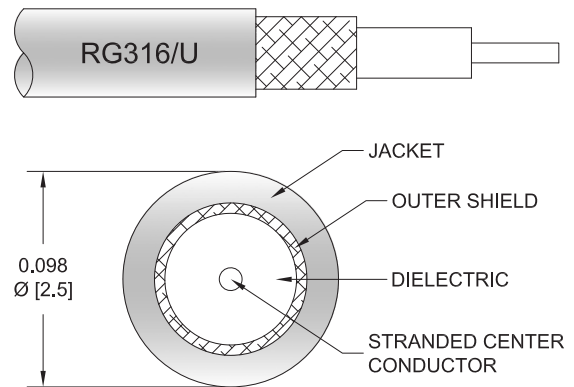
PE3C1048

Configuration

- Connector 1: MCX Plug Right Angle
- Connector 2: SMB Plug Right Angle
- Cable Type: RG316
- Coax Flex Type: Flexible

Features

- Max Frequency 3 GHz
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C1048 MCX plug right angle to SMB plug right angle cable using RG316 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 SMB cable assembly has a plug to plug gender configuration with 50 ohm flexible RG316 coax. The PE3C1048 MCX plug to SMB plug cable assembly operates to 3 GHz. The right angle MCX and right angle SMB interfaces on the RG316 cable allow 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		3	GHz
VSWR			1.4:1	
Capacitance		32 [104.99]		pF/ft [pF/m]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	500	1000	3000	MHz	
PE3C1048	Custom Lengths Available	Insertion Loss (Typ.)	0.11	0.16	0.24	0.38	0.58	dB/ft	
			0.37	0.53	0.79	1.25	1.91	dB/m	
PE3C1048-12	12 inch	Insertion Loss (Typ.)	0.51	0.56	0.64	0.78	0.98	dB	0.032
PE3C1048-24	24 inch	Insertion Loss (Typ.)	0.62	0.72	0.88	1.16	1.56	dB	0.043
PE3C1048-36	36 inch	Insertion Loss (Typ.)	0.73	0.88	1.12	1.54	2.14	dB	0.053
PE3C1048-48	48 inch	Insertion Loss (Typ.)	0.84	1.04	1.36	1.92	2.72	dB	0.063
PE3C1048-72	72 inch	Insertion Loss (Typ.)	1.06	1.36	1.83	2.68	3.88	dB	0.083

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:	0.2 dB
Base Weight:	0.032 pounds
Additional Weight per Inch:	0.00084 pounds

Mechanical Specifications

Cable Assembly

Weight	0.032 lbs [14.51 g]
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Cable

Cable Type	RG316
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	0.098 in [2.49 mm]

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Connectors

Description	Connector 1	Connector 2
Type	MCX Plug Right Angle	SMB Plug Right Angle
Specification	CECC 22220	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	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, Nickel
Outer Conductor Plating Specification		100 µin minimum
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 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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PE3C1048

Typical Performance Data

How to Order

Part Number Configuration:

PE3C1048

- xx

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C1048-12 = 12 inches long cable
PE3C1048-100cm = 100 cm long cable

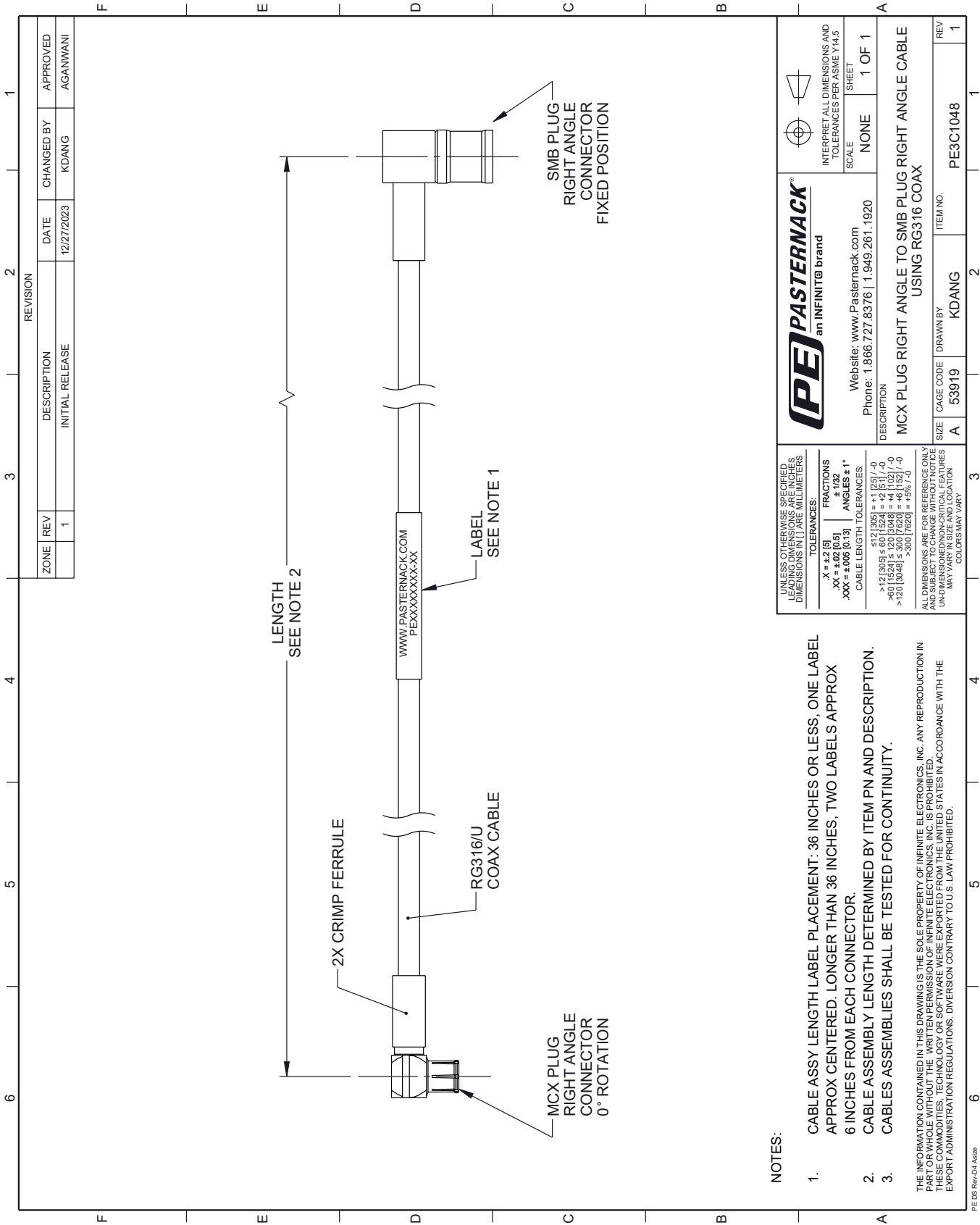
MCX Plug Right Angle to SMB Plug Right Angle Cable Using RG316 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MCX Plug Right Angle to SMB Plug Right Angle Cable Using RG316 Coax PE3C1048](#)

URL: <https://www.pasternack.com/mcx-plug-right-angle-to-smb-plug-cable-using-rg316-pe3c1048-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.

PE3C1048 CAD Drawing
MCX Plug Right Angle to SMB Plug Right Angle Cable Using RG316 Coax



UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.		PE PASTERNAK an INFINITE brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES:		Website: www.Pasternack.com		SCALE	
X = ±.2 [5]		Phone: 1.866.727.8376 1.949.261.1920		NONE	
XX = ±.02 [0.5]		DESCRIPTION		SHEET	
XXX = ±.005 [0.13]		MCX PLUG RIGHT ANGLE TO SMB PLUG RIGHT ANGLE CABLE USING RG316 COAX		1 OF 1	
CABLE LENGTH TOLERANCES:		SIZE		REV	
<12 [305] = ±.1 [25] / -0		A		1	
>12 [305] ≤ 60 [1524] = ±.2 [5] / -0		CAGE CODE		ITEM NO.	
>60 [1524] ≤ 120 [3048] = ±.4 [102] / -0		53919		PE3C1048	
>120 [3048] ≤ 300 [7620] = ±.5% [1.3]		DRAWN BY		1	
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		KDANG		1	

NOTES:

- CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
- CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
- CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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