

MCX Plug Right Angle to Push-On SMP Female Right Angle Cable Using RG316 Coax



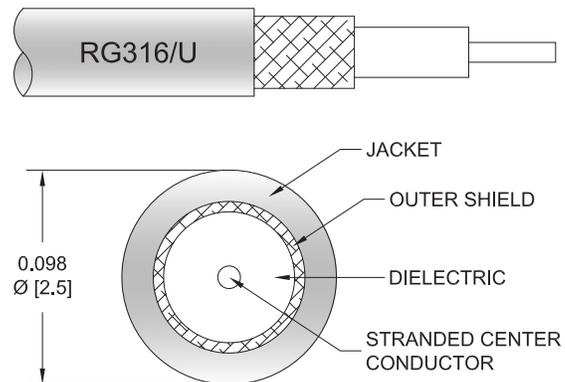
PE3W05275

Configuration

- Connector 1: MCX Plug Right Angle
- Connector 2: Push-On SMP Female Right Angle
- Cable Type: RG316
- Coax Flex Type: Flexible

Features

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W05275 MCX plug right angle to SMP female push-on 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 SMP cable assembly has a plug to female gender configuration with 50 ohm flexible RG316 coax. The PE3W05275 MCX plug to SMP female cable assembly operates to 3 GHz. The right angle MCX and right angle SMP 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	
Velocity of Propagation		69		%
Operating Voltage (AC)			250	Vrms
Jacket Spark			2,000	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency					MHz	
PE3W05275	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	
PE3W05275-12	12 inch	Insertion Loss (Typ.)	0.51	0.56	0.64	0.78	0.98	dB	0.027
PE3W05275-24	24 inch	Insertion Loss (Typ.)	0.62	0.72	0.88	1.16	1.56	dB	0.038
PE3W05275-36	36 inch	Insertion Loss (Typ.)	0.73	0.88	1.12	1.54	2.14	dB	0.048
PE3W05275-48	48 inch	Insertion Loss (Typ.)	0.84	1.04	1.36	1.92	2.72	dB	0.058
PE3W05275-72	72 inch	Insertion Loss (Typ.)	1.06	1.36	1.83	2.68	3.88	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: 0.2 dB
 Loss due to Connector 2: 0.2 dB
 Base Weight: 0.027 pounds
 Additional Weight per Inch: 0.00084 pounds

Mechanical Specifications

Cable Assembly

Weight 0.027 lbs [12.25 g]

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	SMP Female Right Angle
Specification	CECC 22220	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Connection Method		Push-On
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	30 μin minimum	30μ in. minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Beryllium Copper, Gold
Outer Conductor Plating Specification		3μ in. minimum
Body Material and Plating	Brass, Nickel	Brass, Gold
Body Plating Specification	100 μin minimum	3μ in. minimum

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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PE3W05275

Typical Performance Data

How to Order

Part Number Configuration:

PE3W05275

- xx

uu

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3W05275-12 = 12 inches long cable
PE3W05275-100cm = 100 cm long cable

MCX Plug Right Angle to Push-On SMP Female 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.

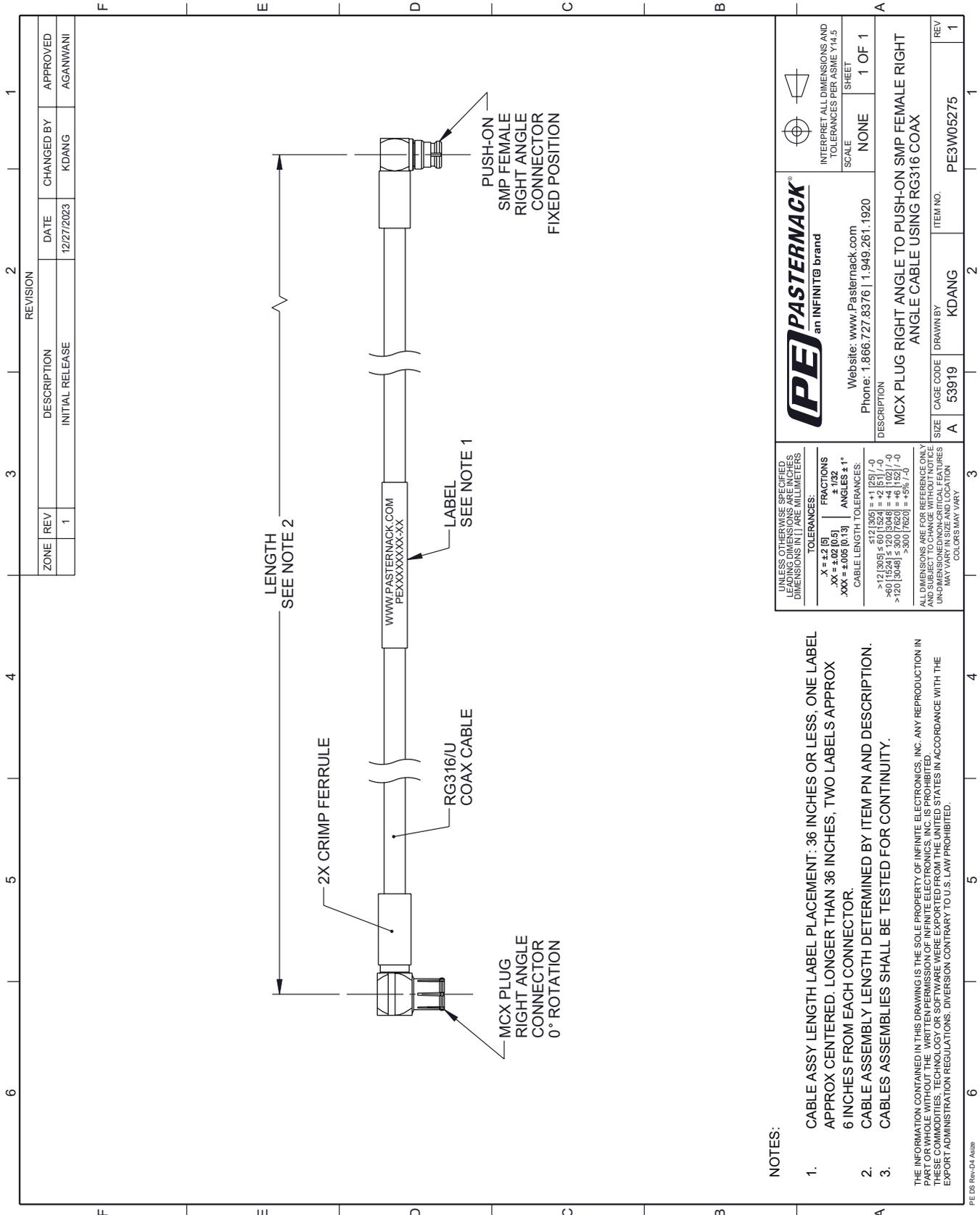
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MCX Plug Right Angle to Push-On SMP Female Right Angle Cable Using RG316 Coax PE3W05275](#)

URL: <https://www.pasternack.com/mcx-plug-right-angle-to-push-on-smp-female-cable-using-rg316-pe3w05275-p.aspx>

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PE3W05275 CAD Drawing

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NOTES:

1. 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.
2. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
3. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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

TOLERANCES:
 .X = ±.2 [5]
 .XX = ±.02 [0.5]
 .XXX = ±.005 [0.13]
 ANGLES ± 1°
 CABLE LENGTH TOLERANCES:
 ≤ 12 [305] ± .60 [1524] = +.2 [51] / -0
 > 12 [305] ≤ 60 [1524] = +.4 [1027] / -0
 > 60 [1524] ≤ 120 [3048] = +.4 [1027] / -0
 > 120 [3048] ≤ 300 [7620] = +.5% [1.9]

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



Website: www.Pasternack.com
 Phone: 1.866.727.8376 | 1.949.261.1920

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
 SCALE NONE
 SHEET 1 OF 1

DESCRIPTION		ITEM NO.	
MCX PLUG RIGHT ANGLE TO PUSH-ON SMP FEMALE RIGHT ANGLE CABLE USING RG316 COAX		PE3W05275	
SIZE	CAGE CODE	DRAWN BY	REV
A	53919	KDANG	1

REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV			
	1	12/27/2023	KDANG	AGANWANI
DESCRIPTION				
INITIAL RELEASE				