MMCX Plug to SSMC Plug Cable Using RG316 Coax

PE3C4173

Configuration
- Connector 1: MMCX Plug
- Connector 2: SSMC Plug
- Cable Type: RG316
- Coax Flex Type: Flexible

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

RG316/U

JACKET

OUTER SHIELD

0.098
Ø [2.5]

DIELECTRIC

STRANDED CENTER
CONDUCTOR
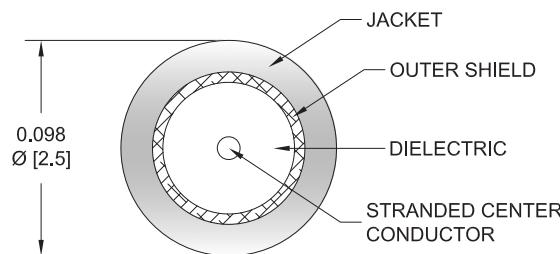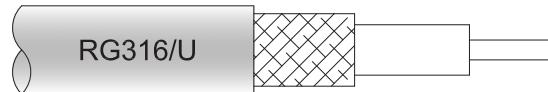
Applications
- General Purpose
- Laboratory Use

Description

Pasternack's PE3C4173 MMCX plug to SSMC plug 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 MMCX to SSMC cable assembly has a plug to plug gender configuration with 50 ohm flexible RG316 coax. The PE3C4173 MMCX plug to SSMC plug cable assembly operates to 3 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		3	GHz
VSWR			1.4:1	
Velocity of Propagation		69		%
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	100	250	500	1000	3000	MHz	
PE3C4173	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	
PE3C4173-12	12 inch	Insertion Loss (Typ.)	0.31	0.36	0.44	0.58	0.78	dB	0.021
PE3C4173-24	24 inch	Insertion Loss (Typ.)	0.42	0.52	0.68	0.96	1.36	dB	0.032
PE3C4173-36	36 inch	Insertion Loss (Typ.)	0.53	0.68	0.92	1.34	1.94	dB	0.042
PE3C4173-48	48 inch	Insertion Loss (Typ.)	0.64	0.84	1.16	1.72	2.52	dB	0.052
PE3C4173-72	72 inch	Insertion Loss (Typ.)	0.86	1.16	1.63	2.48	3.68	dB	0.072

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: 0.021 pounds
Additional Weight per Inch: 0.00084 pounds

Mechanical Specifications

Cable Assembly
Weight   0.021 lbs [9.53 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	MMCX Plug	SSMC Plug
Specification	BS EN 122340	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles		500
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	30 µin minimum	
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Gold	
Outer Conductor Plating Specification	3 µin minimum	
Body Material and Plating	Brass, Gold	Beryllium Copper, Gold
Body Plating Specification	3 µin minimum	
Coupling Nut Material and Plating		Beryllium Copper, Gold
Hex Size		5/32 inch
Torque		1 in-lbs 0.11 Nm

Environmental Specifications

Operating Range Temperature   -45 to +120 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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MMCX Plug to SSMC Plug Cable Using RG316 Coax

PE3C4173

Typical Performance Data

How to Order

Part Number Configuration: **PE3C4173** - xx   uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number
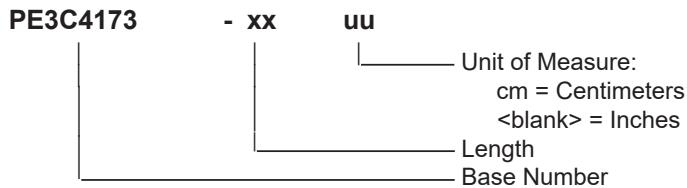
Example: PE3C4173-12 = 12 inches long cable
PE3C4173-100cm = 100 cm long cable

MMCX Plug to SSMC Plug 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: MMCX Plug to SSMC Plug Cable Using RG316 Coax PE3C4173

URL: https://www.pasternack.com/mmcx-plug-to-ssmc-plug-cable-using-rg316-pe3c4173-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 impliment 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.

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PE3C4173 CAD Drawing

MMCX Plug to SSMC Plug Cable Using RG316 Coax

SSMC PLUG CONNECTOR

2X 4mm HEX

LENGTH
SEE NOTE 2

WWW.PASTERNACK.COM
PEXXXXXXX-XX

LABEL
SEE NOTE 1

RG316/U
COAX CABLE

2X CRIMP FERRULE

MMCX PLUG
CONNECTOR

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. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

REVISION

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

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

TOLERANCES:

.X = ±.2 [5]	FRACTIONS ± 1/32
.XX = ±.02 [0.5]	ANGLES ± 1°
.XXX = ±.005 [0.13]	

CABLE LENGTH TOLERANCES:

≤12 [305] = +1 [25] / -0
>12 [305] ≤ 60 [1524] = +2 [51] / -0
>60 [1524] ≤ 120 [3048] = +4 [102] / -0
>120 [3048] ≤ 300 [7620] = +6 [152] / -0
>300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UN-DIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION COLORS MAY VARY

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

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

DESCRIPTION
MMCX PLUG TO SSMC PLUG CABLE USING RG316 COAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	KDANG	PE3C4173	1

SCALE: NONE   SHEET 1 OF 1