



MCX Plug Right Angle to MCX Plug Right Angle Cable 100 cm
Length Using PE-SR405FLJ Coax with 180 Deg. Clock

RF Cable Assemblies Technical Data Sheet

PE3C0965/PH180-100CM

Configuration

- Connector 1: MCX Plug Right Angle
- Connector 2: MCX Plug Right Angle
- Cable Type: PE-SR405FLJ

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket

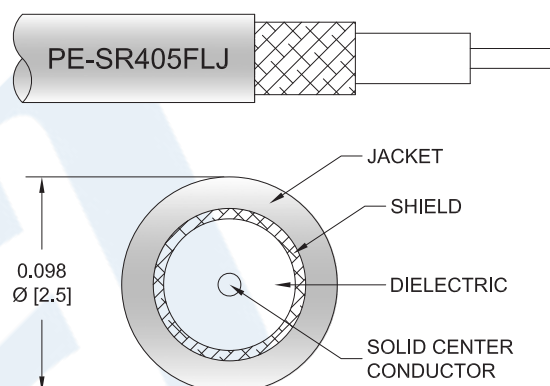
Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C0965/PH180-100CM MCX plug right angle to MCX plug right angle 100 cm cable using PE-SR405FLJ coax is part of our full line of RF components available for same-day shipping. Pasternack's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. This Pasternack MCX to MCX cable assembly has a plug to plug gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3C0965/PH180-100CM MCX plug to MCX plug cable assembly operates to 6 GHz. The right angle MCX interfaces on the PE-SR405FLJ 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.



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 MCX Plug Right Angle Cable 100 cm Length Using PE-SR405FLJ Coax with 180 Deg. Clock PE3C0965/PH180-100CM](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.45:1	
Velocity of Propagation		69.5		%
RF Shielding	100			dB
Group Delay		1.43 [4.69]		ns/ft [ns/m]
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		65.7 [215.55]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		10.2 [33.46]		Ω/1000ft [Ω/Km]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	6		GHz
Insertion Loss (Max.)	0.89	1.14	11.4	2.37		dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. Insertion Loss is estimated as 0.2 dB per connector.

Mechanical Specifications

Cable Assembly

Length* 39.37 in [100 cm]

Cable

Cable Type PE-SR405FLJ
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper Clad Steel, Silver
Dielectric Type PTFE
Number of Shields 1
Outer Conductor Material and Plating Tinned Copper Composite Braid
Jacket Material FEP, Black
Jacket Diameter 0.105 in [2.67 mm]

One Time Minimum Bend Radius 0.5 in [12.7 mm]
Repeated Minimum Bend Radius 0.787 in [19.99 mm]

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Connectors

Description	Connector 1	Connector 2
Type	MCX Plug Right Angle	MCX Plug Right Angle
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold over Nickel	Brass, Gold over Nickel
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold over Nickel	Brass, Gold over Nickel

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

PE3C0965/PH180

- **xx**

uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3C0965/PH180-12 = 12 inches long cable
PE3C0965/PH180-100cm = 100 cm long cable

MCX Plug Right Angle to MCX Plug Right Angle Cable 100 cm Length Using PE-SR405FLJ Coax with 180 Deg. Clock 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.

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URL:

The information contained in 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 reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

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LENGTH MEASURED FROM CONTACT TO CONTACT

2X HEAT SHRINK SLEEVE

PE-SR405FLJ

CONTACT

CONTACT (180° CLOCKWISE ROTATED)

MCX PLUG RA

CONTACT

MCX PLUG RA (FIXED POSITION)

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE IN MILLIMETERS	TOLERANCES: X ± .2 [.008] FRACTIONS XX ± .02 [.51] + 1/32 XXX ± .005 [.13] ANGLES ± °		THIRD-ANGLE PROJECTION 	
	CABLE LENGTH (L) (L) TOLERANCES: L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5% / -0			
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.			THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.	
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SIZE A	CAGE CODE 53919	DRAWN BY K.DANG	ITEM NO. PE3C0965/PH180	REV A