

PE3C5024/HS

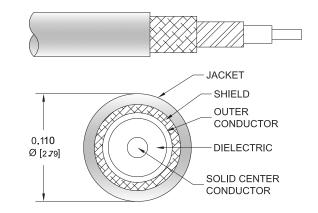
Configuration

· Connector 1: MCX Plug Right Angle

Connector 2: SMA MaleCable Type: LMR-100ACoax Flex Type: Flexible

Features

- · Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- · Double Shielded
- PVC Jacket



Applications

· General Purpose

· Laboratory Use

Description

Pasternack's PE3C5024/HS MCX plug right angle to SMA male cable using LMR-100 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 SMA cable assembly has a plug to male gender configuration with 50 ohm flexible LMR-100A coax. The PE3C5024/HS MCX plug to SMA male cable assembly operates to 3 GHz. The right angle MCX interface on the LMR-100A cable allows for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB

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		66		%
RF Shielding	90			dB
Group Delay		1.54 [5.05]		ns/ft [ns/m]
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Inductance		0.077 [0.25]		uH/ft [uH/m]
DC Resistance Inner Conductor		81 [265.75]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		9.5 [31.17]		Ohms/1000ft [Ohms/Km]



PE3C5024/HS

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			2,000	Vrms

2

0.11 in [2.79 mm]

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	
PE3C5024/HS	Custom Lengths	Insertion Loss (Typ.)	0.064	0.115	0.165	0.24	0.432	dB/ft	
FE3C3024/113	Available	ilisertion Loss (Typ.)	0.21	0.38	0.55	0.79	1.42	dB/m	
PE3C5024/HS-24	24 Inch	Insertion Loss (Typ.)	0.58	0.68	0.78	0.93	1.32	dB	0.037
PE3C5024/HS-36	36 Inch	Insertion Loss (Typ.)	0.65	0.8	0.95	1.17	1.75	dB	0.046
PE3C5024/HS-48	48 Inch	Insertion Loss (Typ.)	0.71	0.91	1.11	1.41	2.18	dB	0.055
PE3C5024/HS-100CM	100 CM	Insertion Loss (Typ.)	0.66	0.83	1	1.24	1.87	dB	0.049
PE3C5024/HS-200CM	200 CM	Insertion Loss (Typ.)	0.87	1.21	1.54	2.03	3.29	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 dBLoss due to Connector 2:0.25 dBBase Weight:0.028 poundsAdditional Weight per Inch:0.07833 pounds

Mechanical Specifications

Cable Assembly

Jacket Diameter

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.028 lbs [12.7 g]

Cable

Cable Type LMR-100A Impedance 50 Ohms Inner Conductor Type Solid

Inner Conductor Material and Plating Copper Clad Steel Dielectric Type PE

Dielectric Type Number of Shields Shield Layer 1

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid
Jacket Material PVC, Black

One Time Minimum Bend Radius 0.25 in [6.35 mm]
Repeated Minimum Bend Radius 1 in [25.4 mm]
Bending Moment 0.1 lbs-ft [0.14 N-m]
Flat Plate Crush 10 lbs/in [0.18 Kg/mm]

Tensile Strength 15 lbs [6.8 Kg]



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Connectors

Description	Connector 1	Connector 2
Туре	MCX Plug Right Angle	SMA Male
Specification	CECC 22220	
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 μin minimum	15 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 μin minimum	200 μin minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		200 μin minimum
Torque		7 in-lbs 0.79 Nm

Environmental Specifications

Operating Range Temperature

-40 to +60 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:





PE3C5024/HS

Typical Performance Data

How to Order

Part Number Configuration:

PE3C5024/HS - xx uu

Unit of Measure:
cm = Centimeters

Length
Base Number

Example: PE3C5024/HS-12 = 12 inches long cable

PE3C5024/HS-100cm = 100 cm long cable

MCX Plug Right Angle to SMA Male Low Loss Cable Using LMR-100 Coax with HeatShrink 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 SMA Male Low Loss Cable Using LMR-100 Coax with HeatShrink PE3C5024/HS

URL: https://www.pasternack.com/mcx-plug-right-angle-to-sma-male-low-loss-cable-using-lmr-100-with-heatshrink-pe3c5024-hs-p.aspx

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