

MCX Plug Right Angle to SMA Male Low Loss Cable Using PE-C100-LSZH Coax with HeatShrink, LF Solder



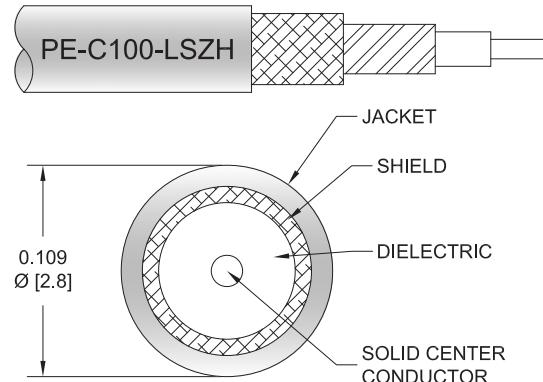
PE3W05648LF/HS

Configuration

- Connector 1: MCX Plug Right Angle
- Connector 2: SMA Male
- Cable Type: PE-C100-LSZH
- Coax Flex Type: Flexible

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W05648LF/HS MCX plug right angle to SMA male cable using PE-C100-LSZH 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 PE-C100-LSZH coax. The PE3W05648LF/HS MCX plug to SMA male cable assembly operates to 3 GHz. The right angle MCX interface on the PE-C100-LSZH 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		1.62 [5.31]		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]

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Electrical Specifications

Description	Minimum	Typical				Maximum	Units
Jacket Spark					2,000		Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	3000	0	MHz	
PE3W05648LF/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.115	0.166	0.24	0.432	0	dB/ft	
			0.38	0.55	0.79	1.42	0	dB/m	
PE3W05648LF/HS-24	24 Inch	Insertion Loss (Typ.)	0.68	0.79	0.93	1.32	0	dB	0.039
PE3W05648LF/HS-36	36 Inch	Insertion Loss (Typ.)	0.8	0.95	1.17	1.75	0	dB	0.049
PE3W05648LF/HS-48	48 Inch	Insertion Loss (Typ.)	0.91	1.12	1.41	2.18	0	dB	0.059
PE3W05648LF/HS-100CM	100 CM	Insertion Loss (Typ.)	0.83	1	1.24	1.87	0	dB	0.052
PE3W05648LF/HS-200CM	200 CM	Insertion Loss (Typ.)	1.21	1.54	2.03	3.29	0	dB	0.084

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: 0.25 dB
Loss due to Connector 2: 0.2 dB
Base Weight: 0.029 pounds
Additional Weight per Inch: 0.1575 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
Weight 0.029 lbs [13.15 g]

Cable

Cable Type PE-C100-LSZH
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper Clad Steel
Dielectric Type PE
Number of Shields 2
Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid
Jacket Material LSZH, Black
Jacket Diameter 0.109 in [2.77 mm]
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
Type	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 μ in minimum	15 μ in minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 μ in minimum	200 μ in minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		200 μ 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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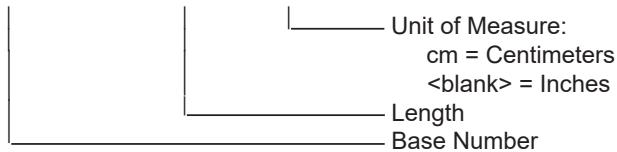
PE3W05648LF/HS

Typical Performance Data

How to Order

Part Number Configuration:

PE3W05648LF/HS - xx uu



Example: PE3W05648LF/HS-12 = 12 inches long cable
PE3W05648LF/HS-100cm = 100 cm long cable

MCX Plug Right Angle to SMA Male Low Loss Cable Using PE-C100-LSZH Coax with HeatShrink, LF Solder 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 PE-C100-LSZH Coax with HeatShrink, LF Solder PE3W05648LF/HS](#)

URL: <https://www.pasternack.com/mcx-plug-right-angle-to-sma-male-low-loss-cable-using-pe-c100-lszh-with-heatshrink-lf-solder-pe3w05648lf-hs-p.aspx>

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PE3W05648LF/HS CAD Drawing

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