

MMCX Plug Right Angle to Push-On SMP Female Right Angle Low Loss Cable Using PE-C100-LSZH Coax with HeatShrink and 270 Deg. Clock



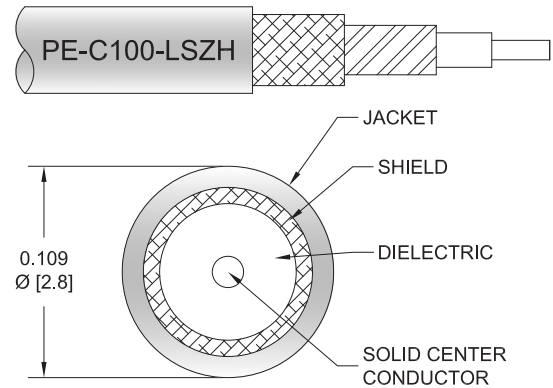
PE3W11470/SP

Configuration

- Connector 1: MMCX Plug Right Angle
- Connector 2: Push-On SMP Female Right Angle
- 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 PE3W11470/SP MMCX plug right angle to SMP female push-on right angle 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 MMCX to SMP cable assembly has a plug to female gender configuration with 50 ohm flexible PE-C100-LSZH coax. The PE3W11470/SP MMCX plug to SMP female cable assembly operates to 3 GHz. The right angle MMCX and right angle SMP interfaces on the PE-C100-LSZH cable allow 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]
Operating Voltage (AC)			250	Vrms

MMCX Plug Right Angle to Push-On SMP Female
Right Angle Low Loss Cable Using PE-C100-LSZH
Coax with HeatShrink and 270 Deg. Clock



PE3W11470/SP

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	100	250	500	1000	3000	MHz	
PE3W11470/SP	Custom Lengths Available	Insertion Loss (Typ.)	0.07	0.115	0.167	0.24	0.444	dB/ft	
			0.23	0.38	0.55	0.79	1.46	dB/m	
PE3W11470/SP-12	12 In	Insertion Loss (Typ.)	0.47	0.52	0.57	0.64	0.85	dB	0.025
PE3W11470/SP-24	24 In	Insertion Loss (Typ.)	0.54	0.63	0.74	0.88	1.29	dB	0.036
PE3W11470/SP-36	36 In	Insertion Loss (Typ.)	0.61	0.75	0.91	1.12	1.74	dB	0.046
PE3W11470/SP-48	48 In	Insertion Loss (Typ.)	0.68	0.86	1.07	1.36	2.18	dB	0.056
PE3W11470/SP-60	60 In	Insertion Loss (Typ.)	0.75	0.98	1.24	1.6	2.62	dB	0.066

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:	0.025 pounds
Additional Weight per Inch:	0.00084 pounds

Mechanical Specifications

Cable Assembly

Weight lbs [0 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]

MMCX Plug Right Angle to Push-On SMP Female
Right Angle Low Loss Cable Using PE-C100-LSZH
Coax with HeatShrink and 270 Deg. Clock



PE3W11470/SP

Connectors

Description	Connector 1	Connector 2
Type	MMCX Plug Right Angle	SMP Female Right Angle
Specification	BS EN 122340	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	30 µin minimum
Dielectric Type	PTFE	Teflon
Outer Conductor Material and Plating		Beryllium Copper, Gold
Outer Conductor Plating Specification		3 µin minimum
Body Material and Plating	Brass, Gold	Brass, Gold
Body Plating Specification	3 µin minimum	3 µin minimum

Environmental Specifications

Operating Range Temperature -40 to +85 deg C

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

Plotted and Other Data

Notes:

MMCX Plug Right Angle to Push-On SMP Female
Right Angle Low Loss Cable Using PE-C100-LSZH
Coax with HeatShrink and 270 Deg. Clock



PE3W11470/SP

Typical Performance Data

How to Order

Part Number Configuration: **PE3W11470/SP - xx uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length
Base Number

Example: PE3W11470/SP-12 = 12 inches long cable
PE3W11470/SP-100cm = 100 cm long cable

MMCX Plug Right Angle to Push-On SMP Female Right Angle Low Loss Cable Using PE-C100-LSZH Coax with HeatShrink and 270 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MMCX Plug Right Angle to Push-On SMP Female Right Angle Low Loss Cable Using PE-C100-LSZH Coax with HeatShrink and 270 Deg. Clock PE3W11470/SP](https://www.pasternack.com/mmcx-plug-right-angle-to-push-on-smp-female-right-angle-low-loss-cable-using-pe-c100-lszh-coax-with-heatshrink-and-270-deg-clock-pe3w11470-sp)

URL: <https://www.pasternack.com/mmcx-plug-right-angle-to-push-on-smp-female-low-loss-cable-using-pe-c100-lszh-with-heatshrink-and-270-deg-clock-pe3w11470-sp-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 implement 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.

PE3W11470/SP CAD Drawing

MMCX Plug Right Angle to Push-On SMP Female Right Angle Low Loss Cable

Using PE-C100-LSZH Coax with HeatShrink and 270 Deg. Clock

