

SMA Male Right Angle to SMA Female Bulkhead Low Loss Cable Using PE-C100-LSZH Coax



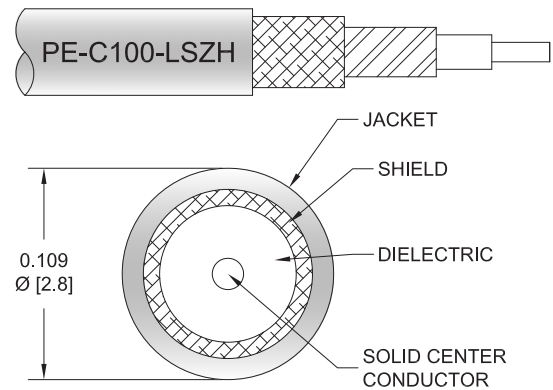
PE3C8445

Configuration

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

Features

- Max Frequency 5 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C8445 SMA male right angle to SMA female bulkhead 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 SMA to SMA cable assembly has a male to female gender configuration with 50 ohm flexible PE-C100-LSZH coax. The PE3C8445 SMA male to SMA female cable assembly operates to 5 GHz. The right angle SMA interface on the PE-C100-LSZH cable allows for easier connections in tight spaces. Our RF cable assembly with SMA bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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		5	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
RF Shielding	90			dB
Capacitance		30.8 [101.05]		pF/ft [pF/m]
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	250	500	1000	2500	5000	MHz	
PE3C8445	Custom Lengths Available	Insertion Loss (Typ.)	0.115	0.166	0.24	0.405	0.6	dB/ft	
			0.38	0.55	0.79	1.33	1.97	dB/m	
PE3C8445-12	12 inch	Insertion Loss (Typ.)	0.42	0.47	0.54	0.71	0.9	dB	0.038
PE3C8445-24	24 inch	Insertion Loss (Typ.)	0.53	0.64	0.78	1.11	1.5	dB	0.049
PE3C8445-36	36 inch	Insertion Loss (Typ.)	0.65	0.8	1.02	1.52	2.1	dB	0.059
PE3C8445-48	48 inch	Insertion Loss (Typ.)	0.76	0.97	1.26	1.92	2.7	dB	0.069
PE3C8445-60	60 inch	Insertion Loss (Typ.)	0.88	1.13	1.5	2.33	3.3	dB	0.079

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:	0.2 dB
Base Weight:	0.038 pounds
Additional Weight per Inch:	0.00084 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.038 lbs [17.24 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	PVC, Black
Jacket Diameter	0.11 in [2.79 mm]
One Time Minimum Bend Radius	0.25 in [6.35 mm]
Repeated Minimum Bend Radius	1 in [25.4 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	SMA Female Bulkhead
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	50 µin minimum	
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Brass, Gold
Body Material and Plating	Brass, Nickel	Brass, Gold
Body Plating Specification	100 µin minimum	
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum	
Hex Size	5/16 inch	
Torque	3 in-lbs 0.34 Nm	

Environmental Specifications

Operating Range Temperature -40 to +85 deg C

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

Plotted and Other Data

Notes:

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PE3C8445

Typical Performance Data

How to Order

Part Number Configuration:

PE3C8445

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

Length

Base Number

Example: PE3C8445-12 = 12 inches long cable
PE3C8445-100cm = 100 cm long cable

SMA Male Right Angle to SMA Female Bulkhead Low Loss Cable Using PE-C100-LSZH 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: [SMA Male Right Angle to SMA Female Bulkhead Low Loss Cable Using PE-C100-LSZH Coax PE3C8445](#)

URL: <https://www.pasternack.com/sma-male-right-angle-to-sma-female-bulkhead-low-loss-cable-using-pe-c100-lszh-pe3c8445-p.aspx>

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PE3C8445 CAD Drawing

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