

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



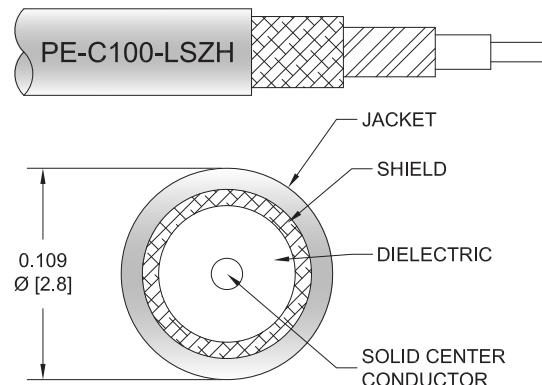
PE3C8445

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 MHz | Weight (lbs) |
|-------------|--------------------------|-----------------------|-----------|-------|------|-------|------|--------------|--------------|
| | | | Frequency | 250 | 500 | 1000 | 2500 | 5000 | |
| 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 μ m minimum | |
| Dielectric Type | PTFE | PTFE |
| Outer Conductor Material and Plating | | Brass, Gold |
| Body Material and Plating | Brass, Nickel | Brass, Gold |
| Body Plating Specification | 100 μ m minimum | |
| Coupling Nut Material and Plating | Brass, Nickel | |
| Coupling Nut Plating Specification | 100 μ m 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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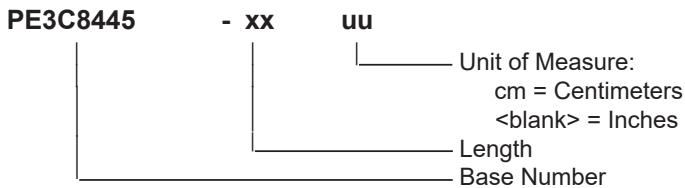


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Typical Performance Data

How to Order

Part Number Configuration:



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>

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.

PE3C8445 CAD Drawing

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

