



Push-On SMP Female Right Angle to Push-On SMP Female Right Angle Low Loss Cable Using LMR-100 Coax with HeatShrink

**RF Cable Assemblies Technical Data Sheet**

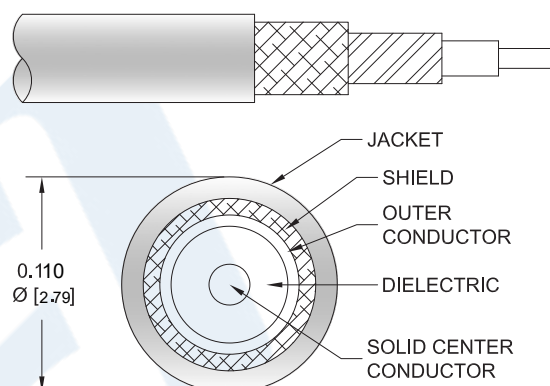
**PE3C3749/HS**

**Configuration**

- Connector 1: Push-OnSMP Female Right Angle
- Connector 2: Push-OnSMP Female Right Angle
- Cable Type: LMR-100A

**Features**

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



**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3C3749/HS SMP female push-on right angle to SMP female push-on right angle 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 SMP to SMP cable assembly has a female to female gender configuration with 50 ohm flexible LMR-100A coax. The PE3C3749/HS SMP female to SMP female cable assembly operates to 3 GHz. The right angle SMP interfaces on the LMR-100A 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Push-On SMP Female Right Angle to Push-On SMP Female Right Angle Low Loss Cable Using LMR-100 Coax with HeatShrink PE3C3749/HS](#)



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**PE3C3749/HS**

### 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]   |         | Ω/1000ft [Ω/Km] |
| DC Resistance Outer Conductor |         | 9.5 [31.17]   |         | Ω/1000ft [Ω/Km] |
| Jacket Spark                  |         |               | 2,000   | Vrms            |

### Specifications by Frequency

| Description           | F1   | F2    | F3    | F4   | F5    | Units |
|-----------------------|------|-------|-------|------|-------|-------|
| Frequency             | 0.1  | 0.25  | 0.5   | 1    | 3     | GHz   |
| Insertion Loss (Typ.) | 0.07 | 0.115 | 0.165 | 0.24 | 0.434 | dB/ft |
|                       | 0.23 | 0.38  | 0.54  | 0.79 | 1.42  | dB/m  |

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per right angle connector.

### Mechanical Specifications

#### Cable Assembly

Weight 0.025 lbs [11.34 g]

#### Cable

|                                      |                     |
|--------------------------------------|---------------------|
| Cable Type                           | LMR-100A            |
| 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]   |

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|                              |                        |
|------------------------------|------------------------|
| 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]        |

**Connectors**

| Description                           | Connector 1            | Connector 2            |
|---------------------------------------|------------------------|------------------------|
| Type                                  | SMP Female Right Angle | SMP Female Right Angle |
| Specification                         | MIL-STD-348A           | MIL-STD-348A           |
| Impedance                             | 50 Ohms                | 50 Ohms                |
| Connection Method                     | Push-On                | Push-On                |
| Contact Material and Plating          | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Specification         | 30μ in. minimum        | 30μ in. minimum        |
| Dielectric Type                       | Teflon                 | Teflon                 |
| Outer Conductor Material and Plating  | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Outer Conductor Plating Specification | 3μ in. minimum         | 3μ in. minimum         |
| Body Material and Plating             | Brass, Gold            | Brass, Gold            |
| Body Plating Specification            | 3μ in. minimum         | 3μ in. minimum         |

**Environmental Specifications**

**Temperature**

|                 |                  |
|-----------------|------------------|
| Operating Range | -40 to +85 deg C |
|-----------------|------------------|

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

**Plotted and Other Data**

Notes:

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**RF Cable Assemblies Technical Data Sheet**

**PE3C3749/HS**

**How to Order**

Part Number Configuration:

**PE3C3749/HS**

**- xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE3C3749/HS-12 = 12 inches long cable  
PE3C3749/HS-100cm = 100 cm long cable

Push-On SMP Female Right Angle to Push-On SMP Female Right Angle 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.

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URL: <https://www.pasternack.com/push-on-smp-female-right-angle-to-push-on-smp-female-low-loss-cable-using-lmr-100-with-heatshrink-pe3c3749-hs-p.aspx>

The information contained in 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 reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

# PE3C3749/HS CAD Drawing

Push-On SMP Female Right Angle to Push-On SMP Female Right Angle  
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