

## SMA Female Bulkhead to SMA Female Bulkhead Low Loss Space Cable Using PE-R200LL Coax



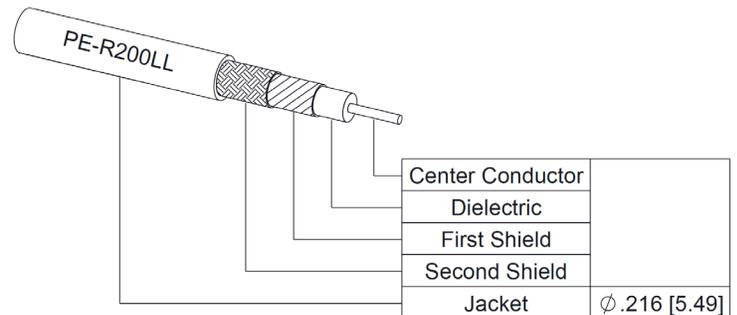
### PE3C100013

#### Configuration

- Connector 1: SMA Female Bulkhead
- Connector 2: SMA Female Bulkhead
- Cable Type: PE-R200LL
- Coax Flex Type: Flexible

#### Features

- Max Frequency 26 GHz
- Shielding Effectivity > 100 dB
- 82% Phase Velocity
- Double Shielded
- ETFE Jacket
- Up to 300 Mrad of Radiation Resistance
- Low Outgassing (TML <1%, CVCM <1%) per ASTM E-595
- Operating Temperature -65 to +150 Deg C
- Built in a Facility with < 100,000 Particles/sq ft
- Built to IPC-A-620 Class 3



#### Applications

- General Purpose
- Laboratory Use
- Vacuum Environments
- Low Earth Orbit (LEO)
- Space (Exploration, Launches, Maintenance, Stations)
- Ground Systems
- Satellites

#### Description

Pasternack's PE3C100013 SMA female bulkhead to SMA female bulkhead cable using PE-R200LL 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 female to female gender configuration with 50 ohm flexible PE-R200LL coax. The PE3C100013 SMA female to SMA female cable assembly operates to 26 GHz. 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 100 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		26	GHz
VSWR			1.4:1	
Velocity of Propagation		82		%
RF Shielding	100			dB

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**PE3C100013**

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Capacitance		25 [82.02]		pF/ft [pF/m]

**Specifications by Frequency**

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency					MHz	
PE3C100013	Custom Lengths Available	Insertion Loss (Typ.)	0.068	0.098	0.15	0.22	0.409	dB/ft	
			0.23	0.33	0.5	0.73	1.35	dB/m	
PE3C100013-12	12 Inch	Insertion Loss (Typ.)	0.27	0.3	0.35	0.42	0.61	dB	0.11
PE3C100013-18	18 Inch	Insertion Loss (Typ.)	0.31	0.35	0.43	0.53	0.82	dB	0.134
PE3C100013-24	24 Inch	Insertion Loss (Typ.)	0.34	0.4	0.5	0.64	1.02	dB	0.158
PE3C100013-100CM	100 CM	Insertion Loss (Typ.)	0.43	0.53	0.7	0.93	1.55	dB	0.22
PE3C100013-200CM	200 CM	Insertion Loss (Typ.)	0.65	0.85	1.19	1.65	2.89	dB	0.377

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:	0.1 dB
Base Weight:	0.11 pounds
Additional Weight per Inch:	0.004 pounds

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter	0.437 in [11.1 mm]
Weight	0.11 lbs [49.9 g]

**Cable**

Cable Type	PE-R200LL
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	2
Shield Layer 1	Silver plated copper
Shield Layer 2	Silver plated copper
Jacket Material	ETFE, Black
Jacket Diameter	0.216 in [5.49 mm]
One Time Minimum Bend Radius	1.08 in [27.43 mm]

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**Connectors**

Description	Connector 1	Connector 2
Type	SMA Female Bulkhead	SMA Female Bulkhead
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	30 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Stainless Steel, Passivated	Stainless Steel, Passivated

**Environmental Specifications**

Operating Range Temperature -65 to +150 deg C

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

**Plotted and Other Data**

Notes:  
Values at 25°C, sea level.

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### PE3C100013

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3C100013**

- **xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C100013-12 = 12 inches long cable  
PE3C100013-100cm = 100 cm long cable

SMA Female Bulkhead to SMA Female Bulkhead Low Loss Space Cable Using PE-R200LL 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.

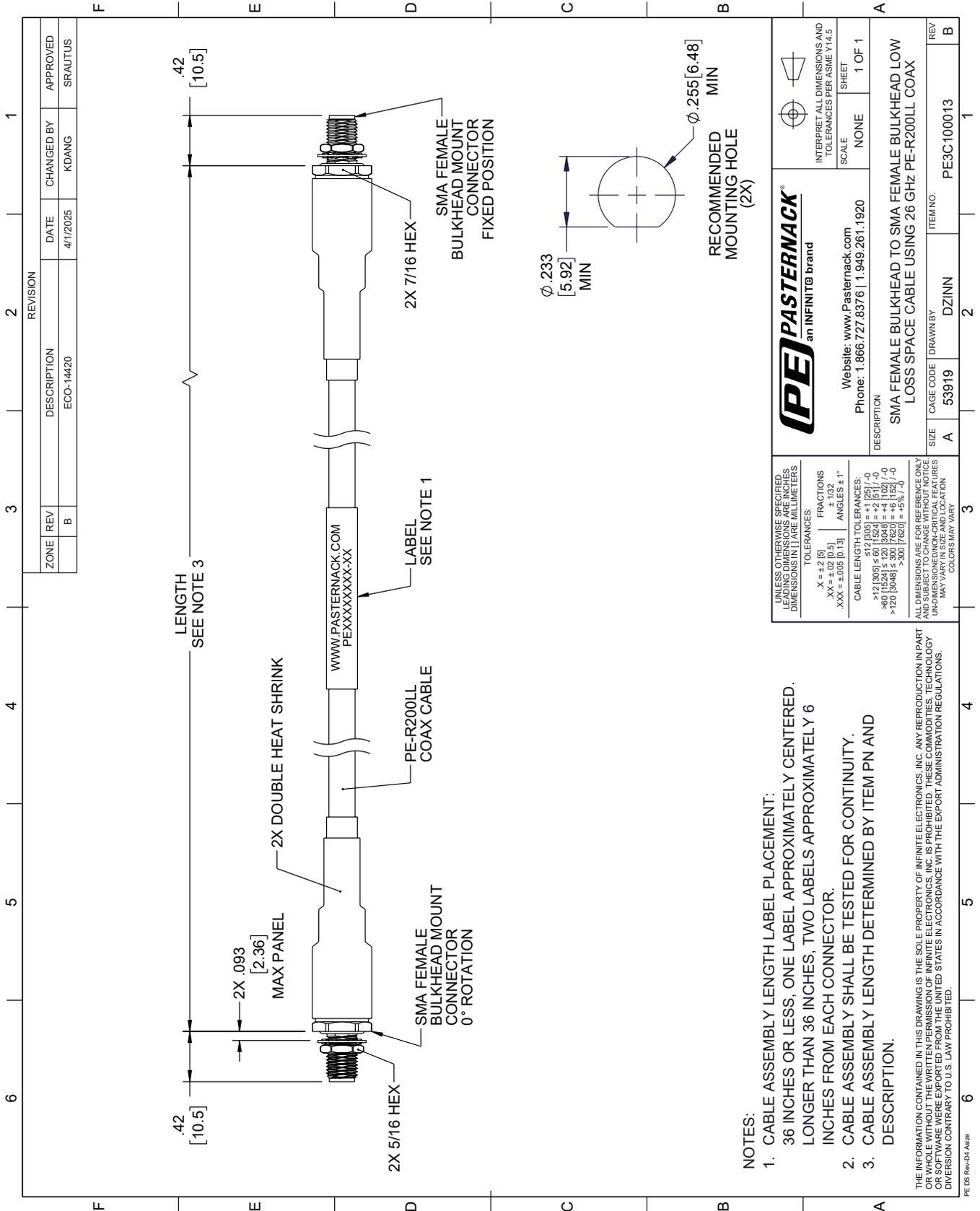
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Bulkhead to SMA Female Bulkhead Low Loss Space Cable Using PE-R200LL Coax PE3C100013](#)

URL: <https://www.pasternack.com/sma-female-bulkhead-to-sma-female-bulkhead-low-loss-space-cable-using-pe-r200ll-pe3c100013-p.aspx>

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# PE3C100013 CAD Drawing

SMA Female Bulkhead to SMA Female Bulkhead Low Loss Space Cable Using PE-R200LL Coax



- NOTES:**
- CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
  - CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
  - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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<p><b>PASTERNAK</b> an INFINITE brand</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SCALE: NONE</p> <p>SHEET: 1 OF 1</p>													
<p>Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a></p> <p>Phone: 1.866.727.8376   1.949.261.1920</p>		<p>DESCRIPTION: SMA FEMALE BULKHEAD TO SMA FEMALE BULKHEAD LOW LOSS SPACE CABLE USING 26 GHz PE-R200LL COAX</p>													
SIZE: A	CAGE CODE: 53919	DRAWN BY: DZINN	ITEM NO.: PE3C100013												
<p>UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE MILLIMETERS.</p> <p>TOLERANCES:          .X = ±.2 [5]          .XX = ±.02 [0.5]          .XXX = ±.005 [0.13]</p> <p>FRACTIONS: ± 1/32</p> <p>ANGLES: ± 1°</p> <p>CABLE LENGTH TOLERANCES:          &lt;12 [305] ≤ 60 [1524] = ±.1 [25] / -0          &gt;60 [1524] ≤ 120 [3048] = ±.1 [25] / -0          &gt;120 [3048] ≤ 300 [7620] = ±.3 [7.6]</p> <p>ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.</p>		<p>REVISION</p> <table border="1"> <tr> <th>ZONE</th> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>CHANGED BY</th> <th>APPROVED</th> </tr> <tr> <td>B</td> <td></td> <td>ECO-14420</td> <td>4/11/2025</td> <td>KDANG</td> <td>SRAUTUS</td> </tr> </table>		ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED	B		ECO-14420	4/11/2025	KDANG	SRAUTUS
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