

## 75 Ohm SMC Jack Bulkhead to 75 Ohm SMC Jack Bulkhead Cable Using 75 Ohm RG179 Coax with HeatShrink



### PE3W15050/HS

#### Configuration

- Connector 1: SMC Jack Bulkhead
- Connector 2: SMC Jack Bulkhead
- Cable Type: RG179
- Coax Flex Type: Flexible

#### Features

- Max Frequency 2 GHz
- 70% Phase Velocity
- FEP Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W15050/HS 75 ohm SMC jack bulkhead to 75 ohm SMC jack bulkhead cable using 75 ohm RG179 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 SMC to SMC cable assembly has a jack to jack gender configuration with 75 ohm flexible RG179 coax. The PE3W15050/HS SMC jack to SMC jack cable assembly operates to 2 GHz. Our RF cable assembly with SMC 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.

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		2	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		19.4 [63.65]		pF/ft [pF/m]
Operating Voltage (AC)			335	Vrms

#### Specifications by Frequency

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**PE3W15050/HS**

Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
			Frequency	100	250	500	1000	
PE3W15050/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.09	0.137	0.203	0.3	dB/ft	
			0.3	0.45	0.67	0.99	dB/m	
PE3W15050/HS-12	12 inch	Insertion Loss (Typ.)	0.29	0.34	0.41	0.5	dB	0.029
PE3W15050/HS-24	24 inch	Insertion Loss (Typ.)	0.38	0.48	0.61	0.8	dB	0.038
PE3W15050/HS-36	36 inch	Insertion Loss (Typ.)	0.47	0.62	0.81	1.1	dB	0.047
PE3W15050/HS-48	48 inch	Insertion Loss (Typ.)	0.56	0.75	1.02	1.4	dB	0.056
PE3W15050/HS-72	72 inch	Insertion Loss (Typ.)	0.74	1.03	1.42	2	dB	0.074

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: 0.029 pounds  
 Additional Weight per Inch: 0.00075 pounds

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter 0.5 in [12.7 mm]  
 Weight 0.02 lbs [9.07 g]

**Cable**

Cable Type RG179  
 Impedance 75 Ohms  
 Inner Conductor Type Stranded  
 Inner Conductor Material and Plating Copper Clad Steel, Silver  
 Dielectric Type PTFE  
 Number of Shields 1  
 Shield Layer 1 Silver Plated Copper Braid  
 Jacket Material FEP, Tan  
 Jacket Diameter 0.1 in [2.54 mm]  
 Repeated Minimum Bend Radius 0.4 in [10.16 mm]

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**Connectors**

Description	Connector 1	Connector 2
Type	SMC Jack Bulkhead	SMC Jack Bulkhead
Specification	MIL-STD-348	MIL-STD-348
Impedance	75 Ohms	75 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Gold	Gold
Contact Plating Specification	MIL-G-45204	MIL-G-45204
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	QQ-N-290	QQ-N-290

**Environmental Specifications**

Operating Range Temperature -55 to +165 deg C

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

**Plotted and Other Data**

Notes:

75 Ohm SMC Jack Bulkhead to 75 Ohm SMC Jack Bulkhead  
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**PE3W15050/HS**

**Typical Performance Data**

**How to Order**

Part Number Configuration:

**PE3W15050/HS - xx uu**



Example: PE3W15050/HS-12 = 12 inches long cable  
PE3W15050/HS-100cm = 100 cm long cable

75 Ohm SMC Jack Bulkhead to 75 Ohm SMC Jack Bulkhead Cable Using 75 Ohm RG179 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.

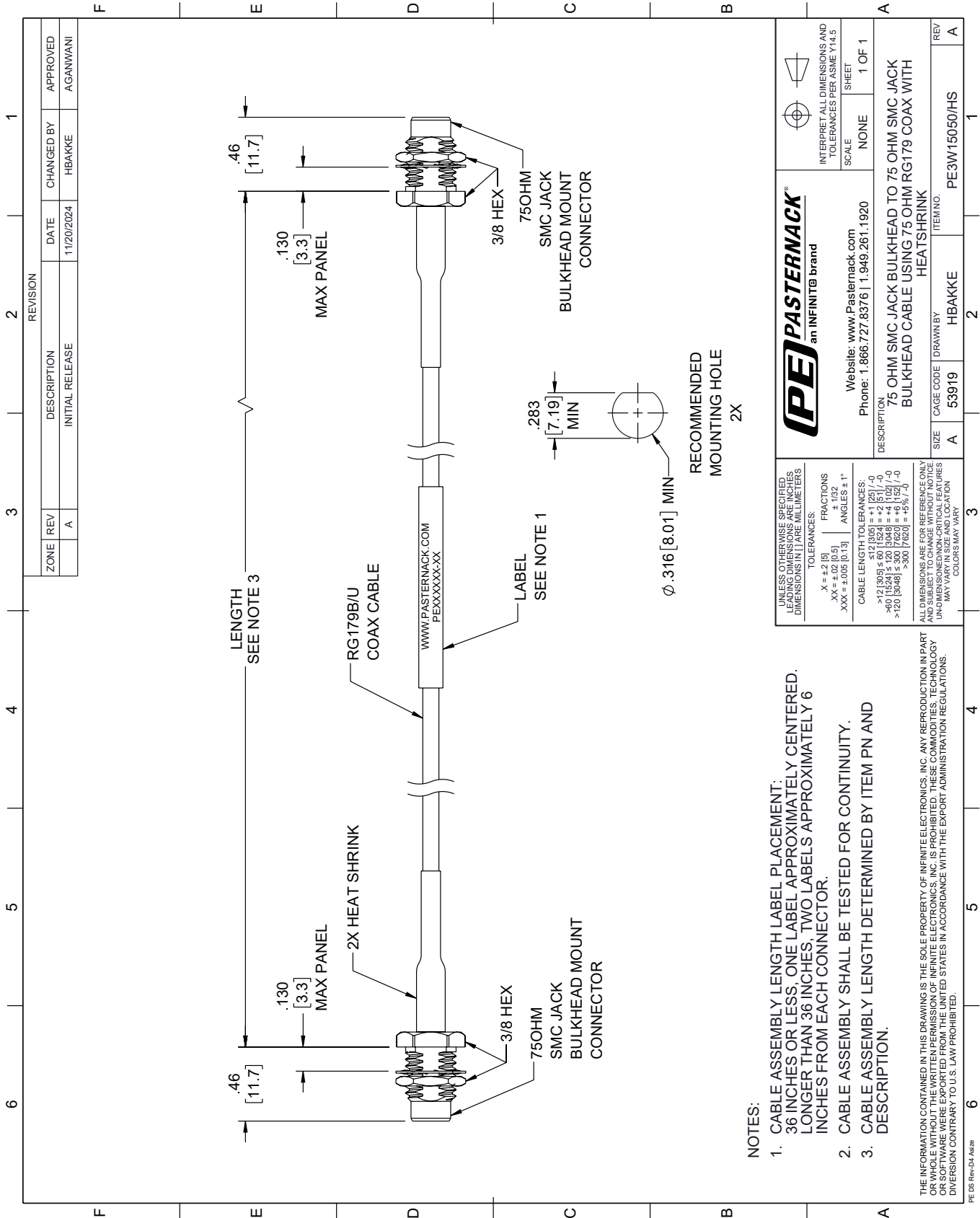
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm SMC Jack Bulkhead to 75 Ohm SMC Jack Bulkhead Cable Using 75 Ohm RG179 Coax with HeatShrink PE3W15050/HS](#)

URL: <https://www.pasternack.com/75-ohm-smc-jack-bulkhead-to-75-ohm-smc-jack-bulkhead-cable-using-rg179-with-heatshrink-pe3w15050-hs-p.aspx>

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# PE3W15050/HS CAD Drawing

75 Ohm SMC Jack Bulkhead to 75 Ohm SMC Jack Bulkhead Cable Using 75 Ohm RG179 Coax with HeatShrink



**NOTES:**

1. 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.
2. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
3. 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   1.949.281.1920</p>		<p>DESCRIPTION</p> <p>75 OHM SMC JACK BULKHEAD TO 75 OHM SMC JACK BULKHEAD CABLE USING 75 OHM RG179 COAX WITH HEATSHRINK</p>
<p>UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE MILLIMETERS.</p> <p>TOLERANCES:</p> <p>X = ±.2 [5]      FRACTIONS ± 1/32</p> <p>.XX = ±.02 [0.5]      ANGLES ± 1°</p> <p>.XXX = ±.005 [0.13]</p> <p>CABLE LENGTH TOLERANCES:</p> <p>&gt;12 [305] ≤ 60 [1524] = ±.1 [25] / -0</p> <p>&gt;60 [1524] ≤ 120 [3048] = ±.4 [102] / -0</p> <p>&gt;120 [3048] ≤ 300 [7620] = ±.6 [152] / -0</p>	<p>ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.</p>	<p>REV A</p> <p>ITEM NO. PE3W15050/HS</p>