



Smooth Bore SMP Male Bulkhead to 2.92mm Male Cable Using RG405 Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

PE3W12044/HS

Configuration

- Connector 1: Smooth BoreSMP Male Bulkhead
- Connector 2: 2.92mm Male
- Cable Type: RG405

Features

- Max Frequency 18 GHz
- Shielding Effectivity > -110 dB
- 69.5% Phase Velocity

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W12044/HS SMP male smooth bore bulkhead to 2.92mm male cable using RG405 coax is part of our full line of RF components available for same-day shipping. Pasternack's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. This Pasternack SMP to 2.92mm cable assembly has a male to male gender configuration with 50 ohm semi-rigid RG405 coax. The PE3W12044/HS SMP male to 2.92mm male cable assembly operates to 18 GHz. Our RF cable assembly with SMP 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Smooth Bore SMP Male Bulkhead to 2.92mm Male Cable Using RG405 Coax with HeatShrink PE3W12044/HS](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
RF Shielding	-110			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	2.5	5	20	30	40	GHz
Insertion Loss (Typ.)	0.22	0.284	0.445	0.735	1.12	dB/ft
	0.72	0.93	1.46	2.41	3.67	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the SMP male connector and 0.04XSQRT(FGHz) dB for the 2.92mm male connector.

Mechanical Specifications

Cable Assembly

Weight 0.053 lbs [24.04 g]

Cable

Cable Type RG405
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper Clad Steel, Silver
 Dielectric Type PTFE
 Number of Shields 1
 Outer Conductor Material and Plating Copper

Repeated Minimum Bend Radius 0.05 in [1.27 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMP Male Bulkhead	2.92mm Male
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Connection Method	Smooth Bore	
Mating Cycles		500
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold over Nickel
Contact Plating Specification	MIL-G-45204	50 µin minimum
Dielectric Type	PTFE	PEI
Body Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold over Nickel
Body Plating Specification	MIL-G-45204	50 µin minimum
Coupling Nut Material and Plating		Passivated Stainless Steel
Coupling Nut Plating Specification		ASTM-A582
Hex Size		5/16 inch
Torque		8 in-lbs [0.9 Nm]

Environmental Specifications

Temperature

Operating Range -55 to +125 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

PE3W12044/HS

How to Order

Part Number Configuration:

PE3W12044/HS - xx uu

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

Example: PE3W12044/HS-12 = 12 inches long cable
 PE3W12044/HS-100cm = 100 cm long cable

Smooth Bore SMP Male Bulkhead to 2.92mm Male Cable Using RG405 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.

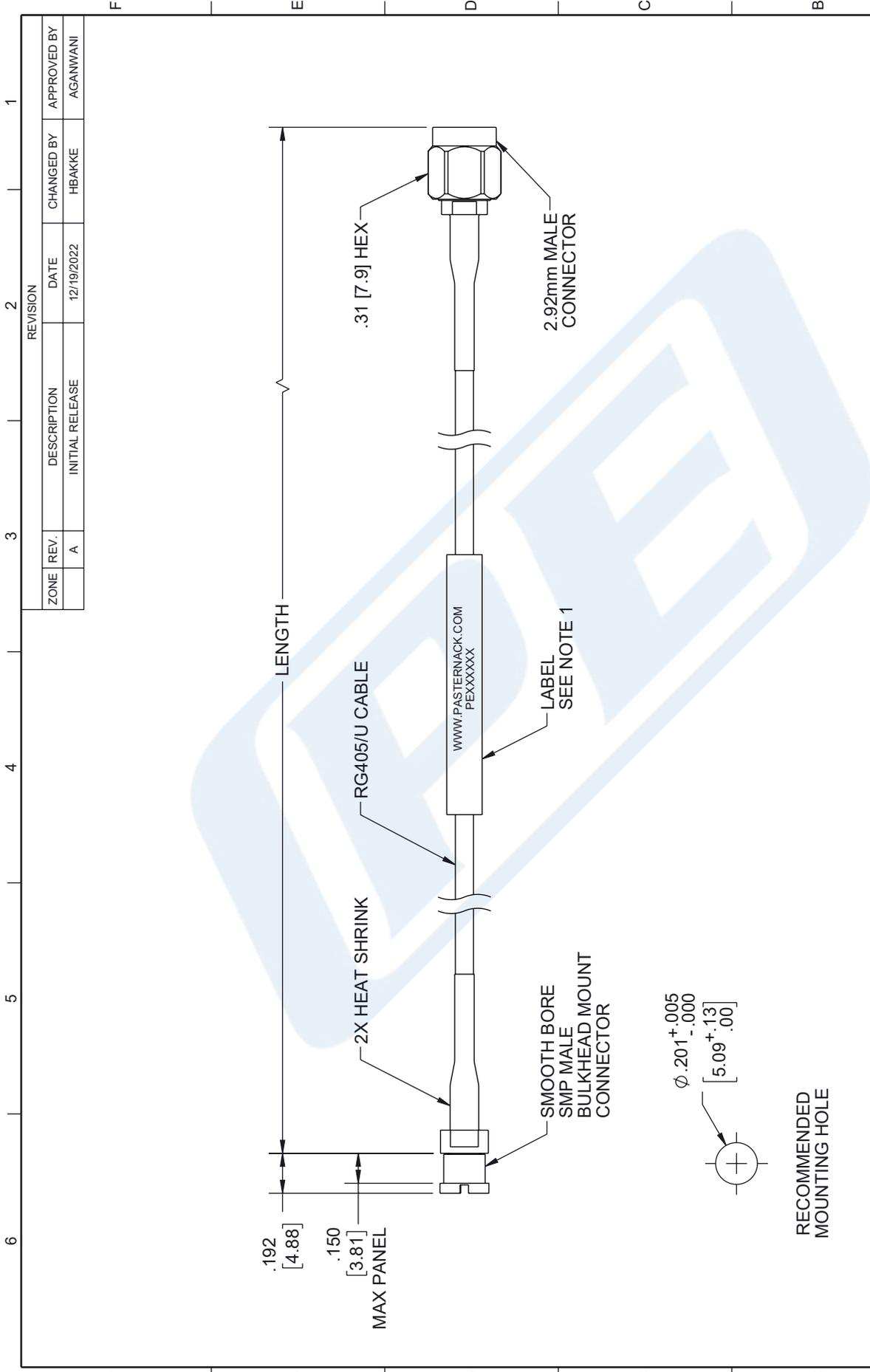
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Smooth Bore SMP Male Bulkhead to 2.92mm Male Cable Using RG405 Coax with HeatShrink PE3W12044/HS](https://www.pasternack.com/smooth-bore-smp-male-bulkhead-to-2.92mm-male-cable-using-rg405-coax-with-heatshrink-pe3w12044/hs)

URL: <https://www.pasternack.com/smooth-bore-smp-male-bulkhead-to-2.92mm-male-cable-using-rg405-with-heatshrink-pe3w12044-hs-p.aspx>

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PE3W12044/HS CAD Drawing

Smooth Bore SMP Male Bulkhead to 2.92mm Male Cable Using RG405 Coax with HeatShrink



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 ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
X = ±.2 [5]	± 1/32
XX = ±.02 [.5]	ANGLES ± 1°
.XXX = ±.005 [.13]	CABLE LENGTH TOLERANCES:
	>12 [305] = +1 [25] / -0
	>12 [305] ≤ 60 [1524] = -2 [51] / -0
	>60 [1524] ≤ 120 [3048] = +4 [102] / -0
	>120 [3048] ≤ 300 [7620] = +6 [152] / -0
	>300 [7620] = +5% / -0
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE	

PE PASTERNAK an INFINITE brand	
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920	
INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	SCALE: NONE
SHEET	1 OF 1
DESCRIPTION: Smooth Bore SMP Male Bulkhead to 2.92mm Male Cable Using RG405 Coax with HeatShrink	
SIZE: A	CAGE CODE: 53919
DRAWN BY: HBAKKE	ITEM NO.: PE3W12044/HS
REV: A	