

SMA Male to TNC Female Bulkhead Cable Using RG316 Coax with HeatShrink

PE3W05741/HS

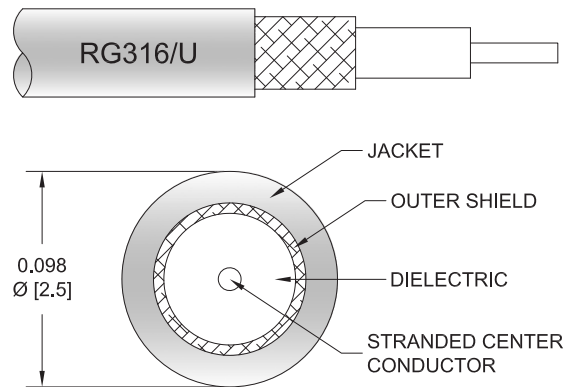


Configuration

- Connector 1: SMA Male
- Connector 2: TNC Female Bulkhead
- Cable Type: RG316
- Coax Flex Type: Flexible

Features

- Max Frequency 1 GHz
- 69% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W05741/HS SMA male to TNC female bulkhead cable using RG316 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 TNC cable assembly has a male to female gender configuration with 50 ohm flexible RG316 coax. The PE3W05741/HS SMA male to TNC female cable assembly operates to 1 GHz. Our RF cable assembly with TNC 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		1,000	MHz
VSWR		1.4:1		
Velocity of Propagation		69		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			375	Vrms
Jacket Spark			2,000	Vrms

Specifications by Frequency

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PE3W05741/HS

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	50	100	250	500	1000	MHz	
PE3W05741/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.11	0.16	0.238	0.38	dB/ft	
			0.25	0.37	0.53	0.79	1.25	dB/m	
PE3W05741/HS-12	12 inch	Insertion Loss (Typ.)	0.43	0.46	0.51	0.59	0.73	dB	0.065
PE3W05741/HS-24	24 inch	Insertion Loss (Typ.)	0.5	0.57	0.67	0.83	1.11	dB	0.076
PE3W05741/HS-36	36 inch	Insertion Loss (Typ.)	0.58	0.68	0.83	1.07	1.49	dB	0.086
PE3W05741/HS-48	48 inch	Insertion Loss (Typ.)	0.65	0.79	0.99	1.31	1.87	dB	0.096
PE3W05741/HS-72	72 inch	Insertion Loss (Typ.)	0.8	1.01	1.31	1.78	2.63	dB	0.116

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:	0.25 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.065 pounds
Additional Weight per Inch:	0.00084 pounds

Mechanical Specifications

Cable Assembly

Weight	0.065 lbs [29.48 g]
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Cable

Cable Type	RG316
Impedance	50 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	0.102 in [2.59 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male	TNC Female Bulkhead
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	15 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	200 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	200 µin minimum	
Torque	10 in-lbs 1.13 Nm	

Environmental Specifications

Operating Range Temperature -40 to +125 deg C

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

Plotted and Other Data

Notes:

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PE3W05741/HS

Typical Performance Data

How to Order

Part Number Configuration:

PE3W05741/HS

- xx

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Unit of Measure:
cm = Centimeters
<blank> = Inches

Length
Base Number

Example: PE3W05741/HS-12 = 12 inches long cable
PE3W05741/HS-100cm = 100 cm long cable

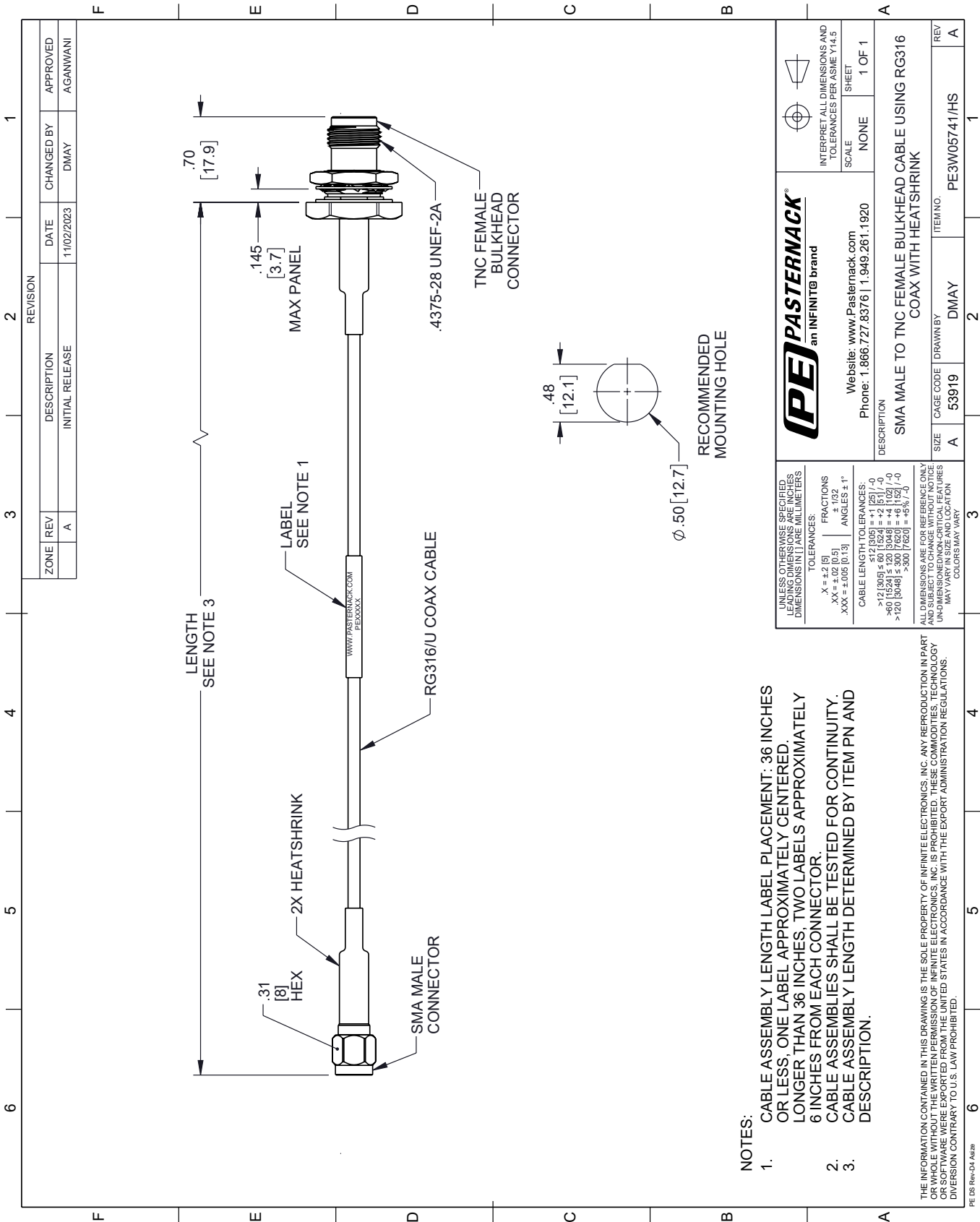
SMA Male to TNC Female Bulkhead Cable Using RG316 Coax with HeatShrink from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to TNC Female Bulkhead Cable Using RG316 Coax with HeatShrink PE3W05741/HS](https://www.pasternack.com/sma-male-to-tnc-female-bulkhead-cable-using-rg316-with-heatshrink-pe3w05741-hs-p.aspx)

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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.

PE3W05741/HS CAD Drawing
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- 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 ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

 		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
		SCALE	SHEET 1 OF 1
DESCRIPTION			
SMA MALE TO TNC FEMALE BULKHEAD CABLE USING RG316 COAX WITH HEATSHRINK			
ITEM NO.			
REV			
SIZE		ITEM NO.	
A		PE3W05741/HS	
CAGE CODE		DRAWN BY	
53919		DMAY	
UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, TRAILING DIMENSIONS ARE IN MILLIMETERS			
TOLERANCES:			
X = ±.2 [5]		FRACTIONS	
XX = ±.02 [0.5]		ANGLES	
XXX = ±.005 [0.13]		ANGLES ± 1°	
CABLE LENGTH TOLERANCES:			
>12 [305] ≤ 60 [1524] = ±1 [25] / -0			
>60 [1524] ≤ 120 [3048] = ±4 [102] / -0			
>120 [3048] ≤ 300 [7620] = ±5% [127] / -0			
>300 [7620] = ±5% / -0			
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UNDIMENSIONED/UNCALL-OUTED FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.			
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