

## Limited Detent SMP Male Bulkhead to MMCX Plug Cable Using Tinned RG405 Coax



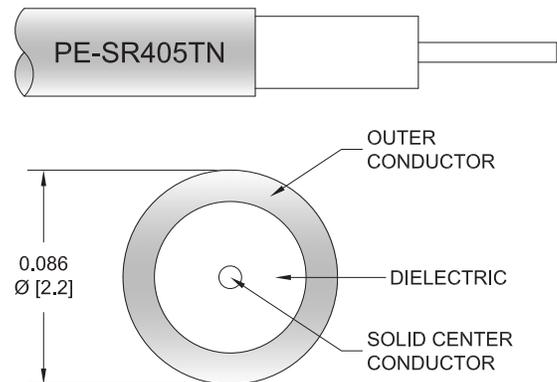
### PE3W16434

#### Configuration

- Connector 1: Limited Detent SMP Male Bulkhead
- Connector 2: MMCX Plug
- Cable Type: RG405 Tinned
- Coax Flex Type: Semi-Rigid

#### Features

- Max Frequency 6 GHz



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W16434 SMP male limited detent bulkhead to MMCX plug cable using tinned 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 MMCX cable assembly has a male to plug gender configuration with 50 ohm semi-rigid RG405 tinned coax. The PE3W16434 SMP male to MMCX plug cable assembly operates to 6 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.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	

#### Specifications by Frequency

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**PE3W16434**

Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
			Frequency	1000	2500	5000	6000	
PE3W16434	Custom Lengths Available	Insertion Loss (Typ.)	0.22	0.32	0.477	0.541	dB/ft	
			0.73	1.04	1.57	1.78	dB/m	
PE3W16434-6	6 inch	Insertion Loss (Typ.)	0.31	0.36	0.44	0.48	dB	0.015
PE3W16434-12	12 inch	Insertion Loss (Typ.)	0.42	0.52	0.68	0.75	dB	0.021
PE3W16434-18	18 inch	Insertion Loss (Typ.)	0.53	0.68	0.92	1.02	dB	0.028
PE3W16434-24	24 inch	Insertion Loss (Typ.)	0.64	0.84	1.16	1.29	dB	0.035
PE3W16434-36	36 inch	Insertion Loss (Typ.)	0.86	1.15	1.64	1.83	dB	0.048

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: 0.021 pounds  
 Additional Weight per Inch: 0.00109 pounds

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter: 0.5 in [12.7 mm]  
 Weight: 0.021 lbs [9.53 g]

**Cable**

Cable Type: RG405 Tinned  
 Impedance: 50 Ohms  
 Inner Conductor Type: Solid  
 Inner Conductor Material and Plating: Copper Clad Steel, Silver  
 Dielectric Type: PTFE  
 Number of Shields: 1  
 Shield Layer 1: Tinned Copper  
 One Time Minimum Bend Radius: 0.05 in [1.27 mm]

**Connectors**

Description	Connector 1	Connector 2
Type	SMP Male Bulkhead	MMCX Plug
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Connection Method	Limited Detent	
Mating Cycles	500	
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Gold

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### PE3W16434

#### Environmental Specifications

Operating Range Temperature -55 to +125 deg C

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

#### Plotted and Other Data

Notes:

#### Typical Performance Data

#### How to Order

Part Number Configuration: **PE3W16434 - xx uu**

PE3W16434: Base Number  
 - xx: Length  
 uu: Unit of Measure:  
 cm = Centimeters  
 <blank> = Inches

Example: PE3W16434-12 = 12 inches long cable  
 PE3W16434-100cm = 100 cm long cable

Limited Detent SMP Male Bulkhead to MMCX Plug Cable Using Tinned RG405 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.

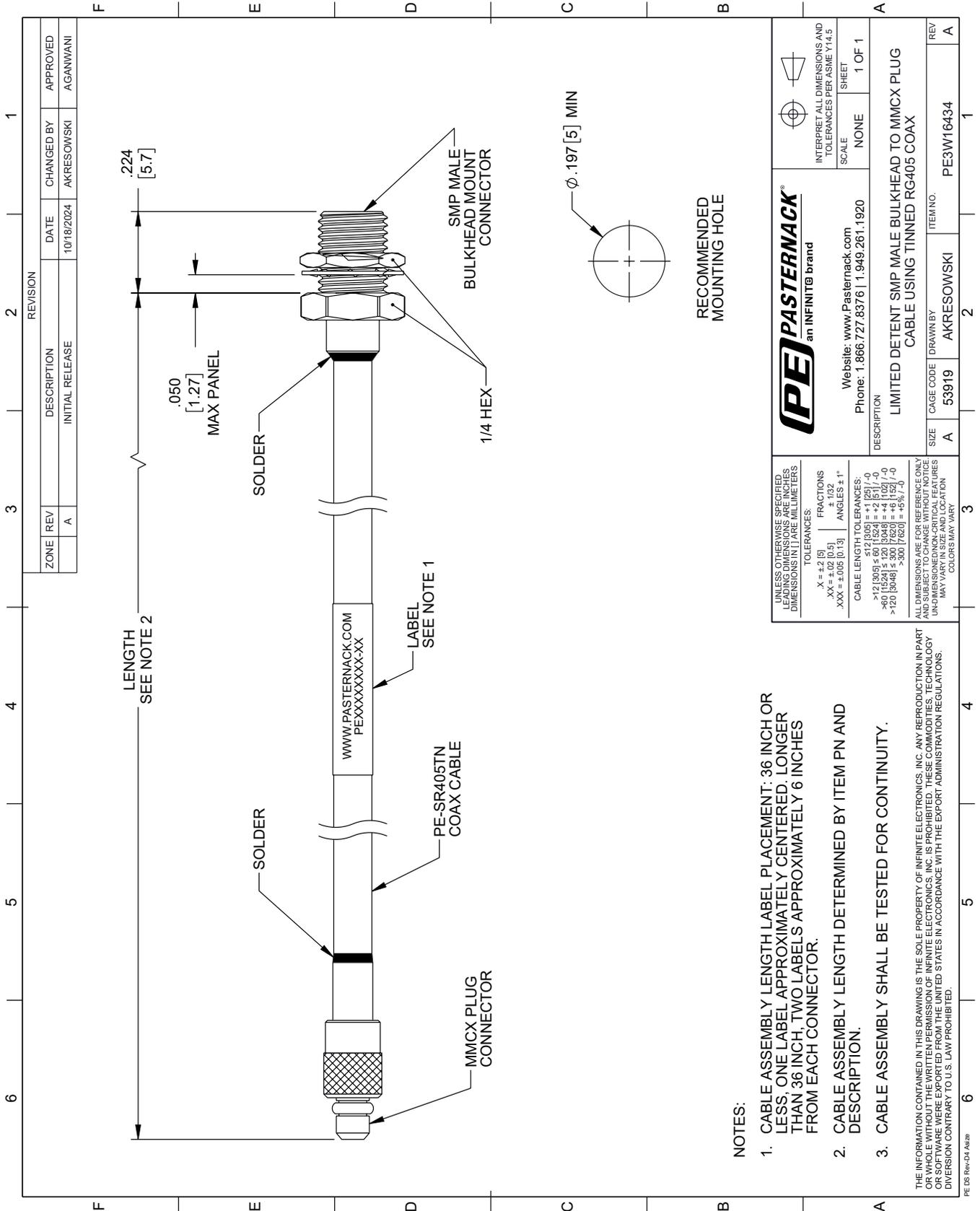
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Limited Detent SMP Male Bulkhead to MMCX Plug Cable Using Tinned RG405 Coax PE3W16434](#)

URL: <https://www.pasternack.com/limited-detent-smp-male-bulkhead-to-mmcx-plug-cable-using-tinned-rg405-pe3w16434-p.aspx>

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# PE3W16434 CAD Drawing

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**NOTES:**

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

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PE DS Rev-04 Add2

REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV			
	A	10/18/2024	AKRESOWSKI	AGANWANI
DESCRIPTION				
INITIAL RELEASE				

		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a> Phone: 1.866.727.8376   1.949.261.1920		SCALE	NONE
DESCRIPTION LIMITED DETENT SMP MALE BULKHEAD TO MMCX PLUG CABLE USING TINNED RG405 COAX		SHEET	1 OF 1
SIZE	A	CAGE CODE	53919
DRAWN BY	AKRESOWSKI	ITEM NO.	PE3W16434