



Limited Detent SMP Male Bulkhead to SMA
Female Cable Using Tinned RG405 Coax

RF Cable Assemblies Technical Data Sheet

PE3W10174

Configuration

- Connector 1: Limited DetentSMP Male Bulkhead
- Connector 2: SMA Female
- Cable Type: RG405 Tinned

Features

- Max Frequency 18 GHz

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W10174 SMP male limited detent bulkhead to SMA female 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 SMA cable assembly has a male to female gender configuration with 50 ohm semi-rigid RG405 tinned coax. The PE3W10174 SMP male to SMA female 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.4:1	

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	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:

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 SMA Female Cable Using Tinned RG405 Coax PE3W10174](#)



Limited Detent SMP Male Bulkhead to SMA Female Cable Using Tinned RG405 Coax

RF Cable Assemblies Technical Data Sheet

PE3W10174

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as $0.05 \times \sqrt{\text{FGHz}}$ dB for the SMP Male connector and 0.1 dB for the SMA Female connector.

Mechanical Specifications

Cable Assembly

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	SMA Female
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Connection Method	Limited Detent	
Mating Cycles	500	
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold over Nickel
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Gold over Nickel

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

Plotted and Other Data

Notes:

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 SMA Female Cable Using Tinned RG405 Coax PE3W10174](#)



Limited Detent SMP Male Bulkhead to SMA Female Cable Using Tinned RG405 Coax

RF Cable Assemblies Technical Data Sheet

PE3W10174

How to Order

Part Number Configuration:

PE3W10174

- **xx**

uu

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

Example: PE3W10174-12 = 12 inches long cable
PE3W10174-100cm = 100 cm long cable

Limited Detent SMP Male Bulkhead to SMA Female 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 SMA Female Cable Using Tinned RG405 Coax PE3W10174](#)

URL:

The information contained in 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 reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE3W10174 CAD Drawing

Limited Detent SMP Male Bulkhead to SMA Female Cable Using Tinned RG405 Coax

