

## SSMA Male to SMA Female Bulkhead Cable Using RG405 Coax



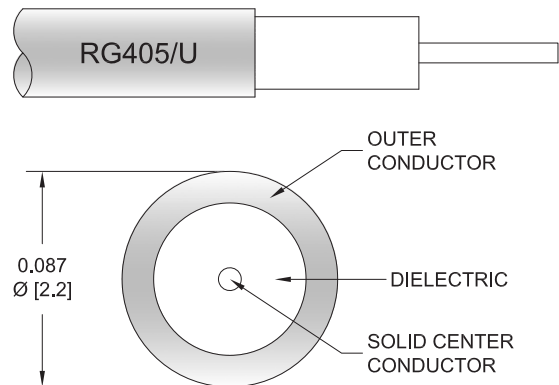
### PE3W10599

#### Configuration

- Connector 1: SSMA Male
- Connector 2: SMA Female Bulkhead
- Cable Type: RG405
- Coax Flex Type: Semi-Rigid

#### Features

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



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W10599 SSMA male to SMA female bulkhead 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 SSMA to SMA cable assembly has a male to female gender configuration with 50 ohm semi-rigid RG405 coax. The PE3W10599 SSMA male to SMA female cable assembly operates to 18 GHz. Our RF cable assembly with SMA 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
Velocity of Propagation		69.5		%
RF Shielding	-110			
Capacitance		29.4 [96.46]		pF/ft [pF/m]

#### Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency					MHz	
PE3W10599	Custom Lengths Available	Insertion Loss (Typ.)	0.22	0.28	0.45	0.74	1.12	dB/ft	
			0.73	0.94	1.47	2.42	3.68	dB/m	
PE3W10599-6	6 inch	Insertion Loss (Typ.)	0.31	0.35	0.43	0.57	0.76	dB	0.02
PE3W10599-12	12 inch	Insertion Loss (Typ.)	0.42	0.49	0.65	0.94	1.32	dB	0.026
PE3W10599-18	18 inch	Insertion Loss (Typ.)	0.53	0.63	0.87	1.31	1.88	dB	0.033
PE3W10599-24	24 inch	Insertion Loss (Typ.)	0.64	0.77	1.1	1.68	2.44	dB	0.04
PE3W10599-36	36 inch	Insertion Loss (Typ.)	0.86	1.06	1.54	2.41	3.56	dB	0.053

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:	0.026 pounds
Additional Weight per Inch:	0.00109 pounds

### Mechanical Specifications

#### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.026 lbs [11.79 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 1 Material and Plating	Copper
Jacket Material	Tan
Repeated Minimum Bend Radius	0.05 in [1.27 mm]

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#### Connectors

Description	Connector 1	Connector 2
Type	SSMA Male	SMA Female Bulkhead
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Gold	Beryllium Copper, Gold over Nickel
Contact Plating Specification	MIL-G-45204	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Gold over Nickel
Body Plating Specification	MIL-G-45204	
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	QQ-N-290	
Hex Size	4-Jan inch	
Torque	3 in-lbs 0.34 Nm	

#### Environmental Specifications

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

#### Plotted and Other Data

Notes:

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### PE3W10599

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3W10599**

- **xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3W10599-12 = 12 inches long cable  
PE3W10599-100cm = 100 cm long cable

SSMA Male to SMA Female Bulkhead Cable Using 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: [SSMA Male to SMA Female Bulkhead Cable Using RG405 Coax PE3W10599](https://www.pasternack.com/ssma-male-to-sma-female-bulkhead-cable-using-rg405-pe3w10599-p.aspx)

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# PE3W10599 CAD Drawing

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