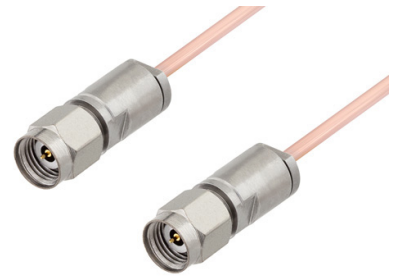


## 2.4mm Male to 2.4mm Male Cable Using RG405 Coax



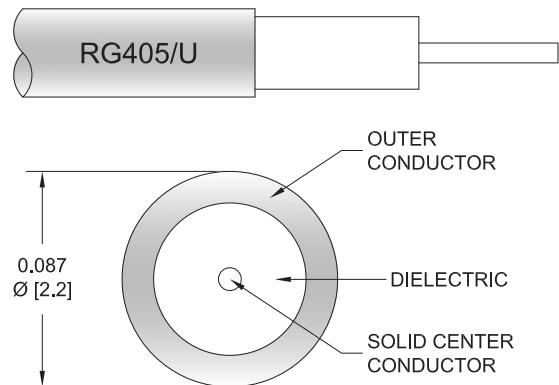
### PE3C1701

#### Configuration

- Connector 1: 2.4mm Male
- Connector 2: 2.4mm Male
- Cable Type: RG405
- Coax Flex Type: Semi-Rigid

#### Features

- Max Frequency 40 GHz



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C1701 2.4mm male to 2.4mm 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 2.4mm to 2.4mm cable assembly has a male to male gender configuration with 50 ohm semi-rigid RG405 coax. The PE3C1701 2.4mm male to 2.4mm male cable assembly operates to 40 GHz.

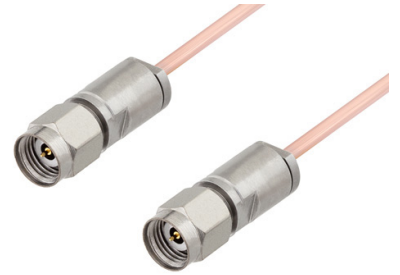
Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector 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		40	GHz
VSWR			1.4:1	

#### Specifications by Frequency

## 2.4mm Male to 2.4mm Male Cable Using RG405 Coax



### PE3C1701

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency	2500	5000	10000	20000	40000	
PE3C1701	Custom Lengths Available	Insertion Loss (Typ.)	0.32	0.48	0.8	1.2	2.4	dB/ft	
			1.04	1.57	2.63	3.94	7.88	dB/m	
PE3C1701-6	6 inch	Insertion Loss (Typ.)	0.36	0.44	0.6	0.8	1.4	dB	1.107
PE3C1701-12	12 inch	Insertion Loss (Typ.)	0.52	0.68	1	1.4	2.6	dB	1.113
PE3C1701-18	18 inch	Insertion Loss (Typ.)	0.68	0.92	1.4	2	3.8	dB	1.12
PE3C1701-24	24 inch	Insertion Loss (Typ.)	0.84	1.16	1.8	2.6	5	dB	1.127
PE3C1701-36	36 inch	Insertion Loss (Typ.)	1.15	1.64	2.6	3.8	7.4	dB	1.14

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:	1.113 pounds
Additional Weight per Inch:	0.00109 pounds

### Mechanical Specifications

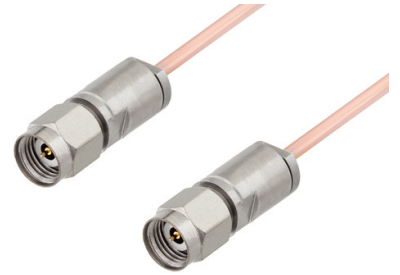
#### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	1.113 lbs [504.85 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
Shield Layer 1	Copper
Jacket Material	Tan

## 2.4mm Male to 2.4mm Male Cable Using RG405 Coax



### PE3C1701

#### Connectors

Description	Connector 1	Connector 2
Type	2.4mm Male	2.4mm Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	MIL-G-45204	MIL-G-45204
Dielectric Type	Noryl	Noryl
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Specification	ASTM A380	ASTM A380
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Plating Specification	ASTM A380	ASTM A380
Hex Size	16-May in.	16-May in.
Torque	8 in-lbs 0.9 Nm	8 in-lbs 0.9 Nm

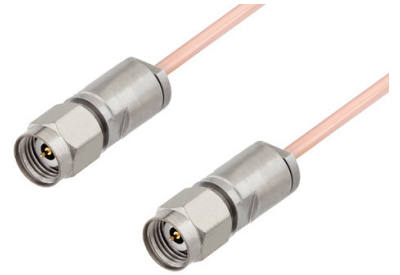
#### Environmental Specifications

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

#### Plotted and Other Data

Notes:  
Values at 25°C, sea level.

## 2.4mm Male to 2.4mm Male Cable Using RG405 Coax



### PE3C1701

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3C1701**

- **xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C1701-12 = 12 inches long cable  
PE3C1701-100cm = 100 cm long cable

2.4mm Male to 2.4mm Male 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: [2.4mm Male to 2.4mm Male Cable Using RG405 Coax PE3C1701](#)

URL: <https://www.pasternack.com/2.4mm-male-to-2.4mm-male-cable-using-rg405-pe3c1701-p.aspx>

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.

# PE3C1701 CAD Drawing

2.4mm Male to 2.4mm Male Cable Using RG405 Coax

