



## 2.4mm Female to 2.4mm Male Cable Using RG405 Coax In 48 Inch Length

### RF Cable Assemblies Technical Data Sheet

PE3C6671-48

#### Configuration

- Connector 1: 2.4mm Female
- Connector 2: 2.4mm Male
- Cable Type: RG405

#### Features

- Max Frequency 40 GHz
- Shielding Effectivity > -110 dB
- 69.5% Phase Velocity

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C6671-48 2.4mm female to 2.4mm male 48 inch 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 female to male gender configuration with 50 ohm semi-rigid RG405 coax. The PE3C6671-48 2.4mm female 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			1.5:1	
Velocity of Propagation		69.5		%
RF Shielding	-110			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	2.5	5	10	20	40	GHz
Insertion Loss (Typ.)	1.08	1.42	2.21	3.54	5.33	dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.4mm Female to 2.4mm Male Cable Using RG405 Coax In 48 Inch Length PE3C6671-48](#)



## 2.4mm Female to 2.4mm Male Cable Using RG405 Coax In 48 Inch Length

### RF Cable Assemblies Technical Data Sheet

PE3C6671-48

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1\*SQRT(FGHz) dB per connector.

#### Mechanical Specifications

##### Cable Assembly

Length*	48 in [121.92 cm]
Weight	0.079 lbs [35.83 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 Material and Plating	Copper
Repeated Minimum Bend Radius	0.05 in [1.27 mm]

#### Connectors

Description	Connector 1	Connector 2
Type	2.4mm Female	2.4mm Male
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	PEI	PEI
Body Material and Plating	Passivated Stainless Steel	Beryllium Copper, Gold over Nickel
Body Plating Specification	SAE-AMS-2700	50 µin minimum
Coupling Nut Material and Plating		Passivated Stainless Steel
Coupling Nut Plating Specification		ASTM-A582
Hex Size		5/16 inch
Torque		8 in-lbs [0.9 Nm]

#### 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: [2.4mm Female to 2.4mm Male Cable Using RG405 Coax In 48 Inch Length PE3C6671-48](#)



2.4mm Female to 2.4mm Male Cable Using  
RG405 Coax In 48 Inch Length

RF Cable Assemblies Technical Data Sheet

PE3C6671-48

**How to Order**

Part Number Configuration:

**PE3C6671**

- **xx**

**uu**

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

Example: PE3C6671-12 = 12 inches long cable  
PE3C6671-100cm = 100 cm long cable

2.4mm Female to 2.4mm Male Cable Using RG405 Coax In 48 Inch Length 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 Female to 2.4mm Male Cable Using RG405 Coax In 48 Inch Length PE3C6671-48](https://www.pasternack.com/2.4mm-female-to-2.4mm-male-cable-48-inch-length-pe3c6671-48)

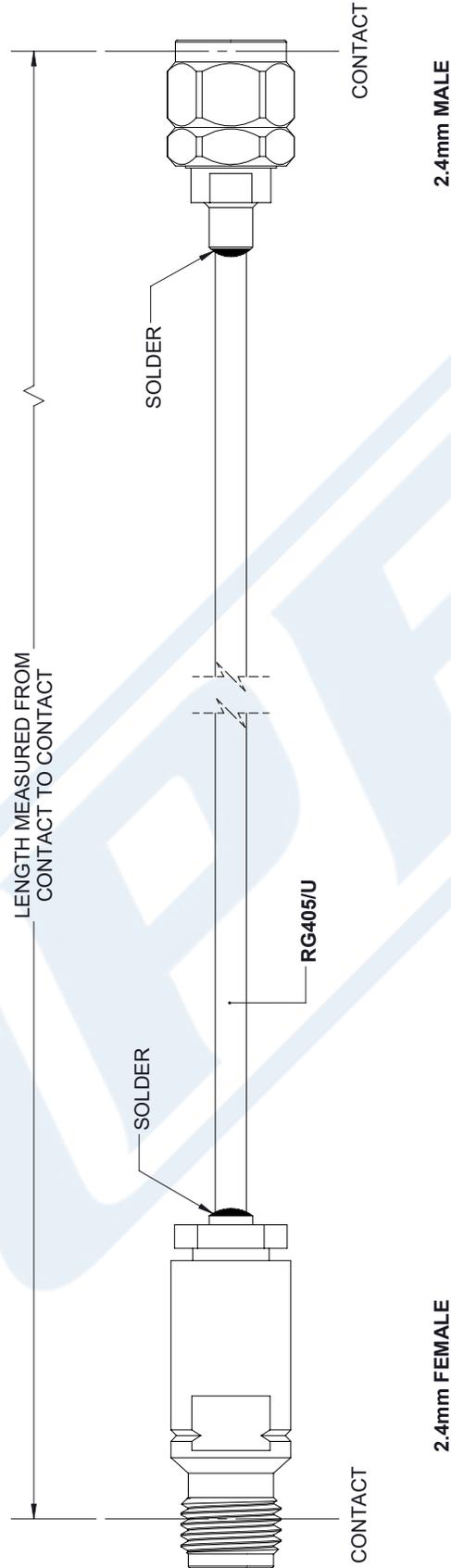
URL: <https://www.pasternack.com/2.4mm-female-to-2.4mm-male-cable-48-inch-length-pe3c6671-48-p.aspx>

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.

# PE3C6671-48 CAD Drawing

2.4mm Female to 2.4mm Male Cable Using RG405 Coax In 48 Inch Length

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	3/26/2021	S. SELLIS



UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

**TOLERANCES:**

.X = ±.2	[.08]	FRACTIONS	
.XX = ±.02	[.51]		± 1/32
.XXX = ±.005	[.13]	ANGLES ± 1°	

**CABLE LENGTH (L) TOLERANCES:**

L ≤ 12	[305]	= +1	[25] / -0		
12	[305]	< L ≤ 60	[1524] = +2	[51] / -0	
60	[1524]	< L ≤ 120	[3048] = +4	[102] / -0	
120	[3048]	< L ≤ 300	[7620] = +6	[152] / -0	
		300	[7620]	< L = +5%	L / -0

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

**PE PASTERNAK**  
an INFINITO brand

Pasternack Enterprises, Inc.  
P. O. Box 16759, Irvine, CA 92623.  
Phone: 1.949.261.1920 | 1.866.727.8376  
Fax: 1.949.261.7451  
Website: www.pasternack.com  
E-mail: sales@pasternack.com

SIZE: A | CAGE CODE: A | DRAWN BY: K.DANG | ITEM NO.: PE3C6671

THIRD-ANGLE PROJECTION	1	OF	1
SCALE	N/A		
REV	A		