



2.4mm Female to 2.4mm Male Cable Using RG405 Coax In 24 Inch Length

RF Cable Assemblies Technical Data Sheet

PE3C6671-24

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 PE3C6671-24 2.4mm female to 2.4mm male 24 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 PE3C6671-24 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.)	0.64	0.86	1.32	2.07	3.09	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 24 Inch Length PE3C6671-24](#)



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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*	24 in [609.6 mm]
Weight	0.053 lbs [24.04 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]
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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:

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How to Order

Part Number Configuration:

PE3C6671

- **xx**

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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 24 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 24 Inch Length PE3C6671-24](https://www.pasternack.com/2.4mm-female-to-2.4mm-male-cable-24-iAch-leAgth-usiAg-rg405-pe3c6671-24-p.aspx)

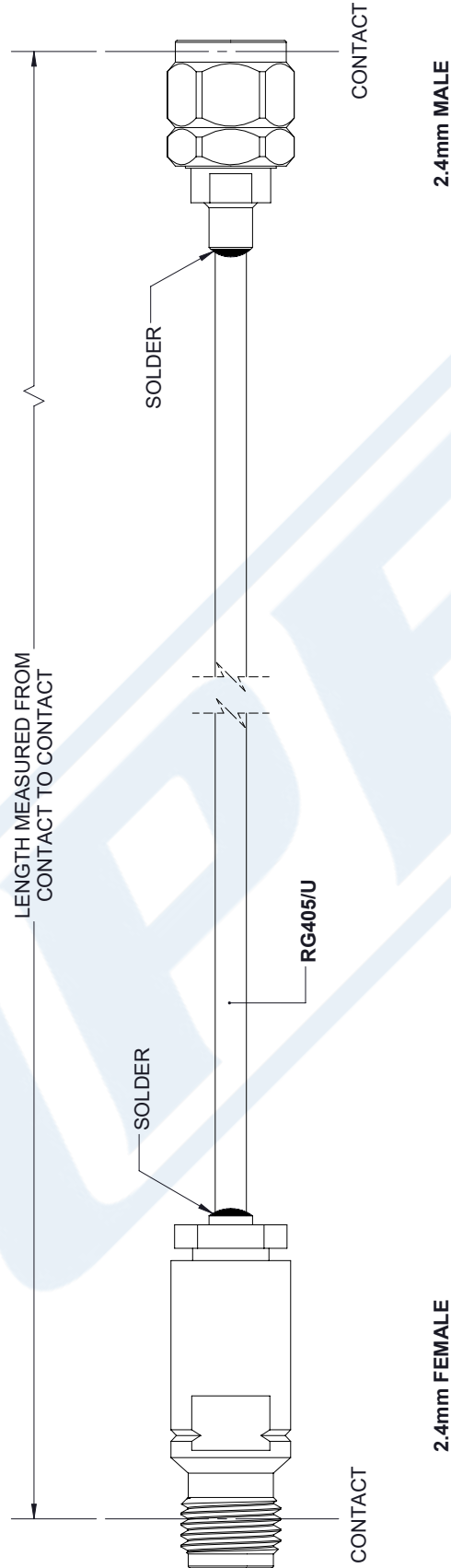
URL: <https://www.pasternack.com/2.4mm-female-to-2.4mm-male-cable-24-iAch-leAgth-usiAg-rg405-pe3c6671-24-p.aspx>

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PE3C6671-24 CAD Drawing

2.4mm Female to 2.4mm Male Cable Using RG405 Coax In 24 Inch Length

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



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	
.X = ± .2 [5.08]	FRACTIONS ± 1/32
.XX = ± .02 [.51]	ANGLES ± 1°
.XXX = ± .005 [.13]	
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.	

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SIZE	ITEM NO.
A	53919
DRAWN BY	PE3C6671
K.DANG	REV
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THIRD-ANGLE PROJECTION	
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SHEET	1 OF 1
SCALE	N/A

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