



## 2.4mm Male to SMA Male Cable 24 Inch Using RG405 Coax

### RF Cable Assemblies Technical Data Sheet

PE3W08574-24

#### Configuration

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

#### Features

- Max Frequency 26.5 GHz
- Shielding Effectivity > -110 dB
- 69.5% Phase Velocity
- 500 Mating Cycles

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W08574-24 2.4mm male to SMA 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 SMA cable assembly has a male to male gender configuration with 50 ohm semi-rigid RG405 coax. The PE3W08574-24 2.4mm male to SMA male cable assembly operates to 26.5 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.

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 SMA Male Cable 24 Inch Using RG405 Coax PE3W08574-24](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		26.5	GHz
VSWR			1.28:1	
Velocity of Propagation		69.5		%
RF Shielding	-110			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Dielectric Withstanding Voltage (AC)			1,000	Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	26.5	GHz
Insertion Loss (Max.)	0.52	0.69	1.07	1.72	3.34	dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss is estimated as  $0.04 \cdot \sqrt{\text{FGHz}}$  dB per 2.4mm male connector and  $0.04 \cdot \sqrt{\text{FGHz}}$  dB per SMA male connector.

#### Mechanical Specifications

##### Cable Assembly

Length\* 24 in [609.6 mm]

##### 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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## 2.4mm Male to SMA Male Cable 24 Inch Using RG405 Coax

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#### Connectors

Description	Connector 1	Connector 2
Type	2.4mm Male	SMA Male
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	500
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold
Contact Plating Specification	50 µin minimum	ASTM-B488
Dielectric Type	PEI	PTFE
Outer Conductor Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold
Outer Conductor Plating Specification	50 µin minimum	ASTM-B488
Body Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold
Body Plating Specification	50 µin minimum	ASTM-B488
Coupling Nut Material and Plating	Passivated Stainless Steel	Steel
Coupling Nut Plating Specification	ASTM-A582	
Hex Size	5/16 inch	
Torque	8 in-lbs [0.9 Nm]	7 in-lbs [0.79 Nm]
Seal Gasket Material	Silicone	Silicone

#### Environmental Specifications

##### Temperature

Operating Range -55 to +125 deg C

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

#### Plotted and Other Data

Notes:

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## 2.4mm Male to SMA Male Cable 24 Inch Using RG405 Coax

### RF Cable Assemblies Technical Data Sheet

PE3W08574-24

#### How to Order

Part Number Configuration:

**PE3W08574**

- **xx**

**uu**

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

Example: PE3W08574-12 = 12 inches long cable  
PE3W08574-100cm = 100 cm long cable

2.4mm Male to SMA Male Cable 24 Inch 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 SMA Male Cable 24 Inch Using RG405 Coax PE3W08574-24](https://www.pasternack.com/2.4mm-male-sma-male-rg405u-cable-assembly-pe3w08574-24-p.aspx)

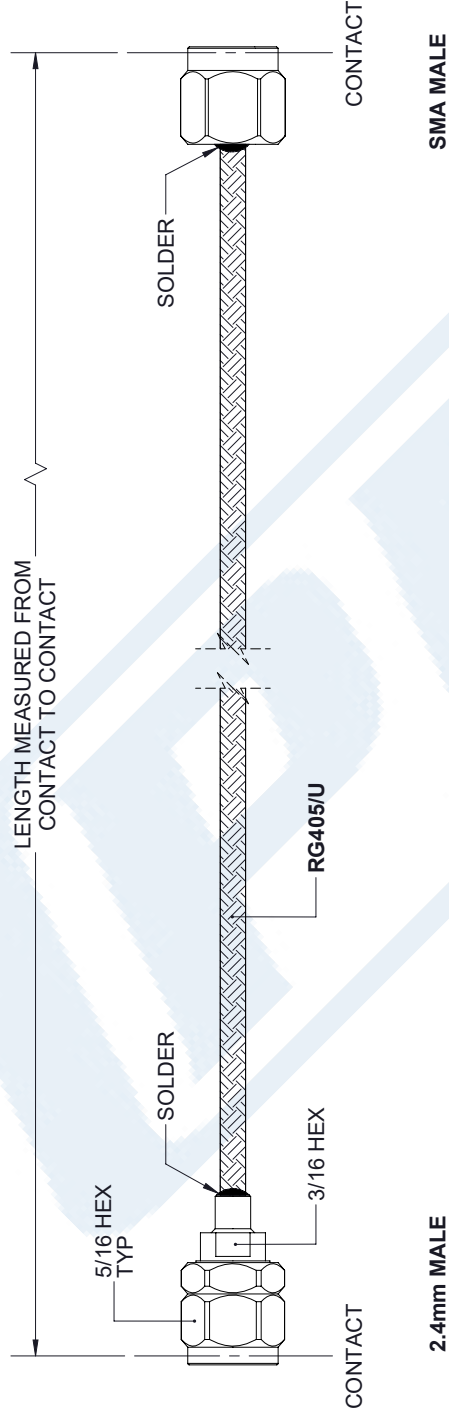
URL: <https://www.pasternack.com/2.4mm-male-sma-male-rg405u-cable-assembly-pe3w08574-24-p.aspx>

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.

# PE3W08574-24 CAD Drawing

## 2.4mm Male to SMA Male Cable 24 Inch Using RG405 Coax

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	1/28/2020	S. ELLIS



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

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	K. DANG	PE3W08574
REV			A

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