

2.92mm Male to SMA Male Cable Using Tinned RG405 Coax



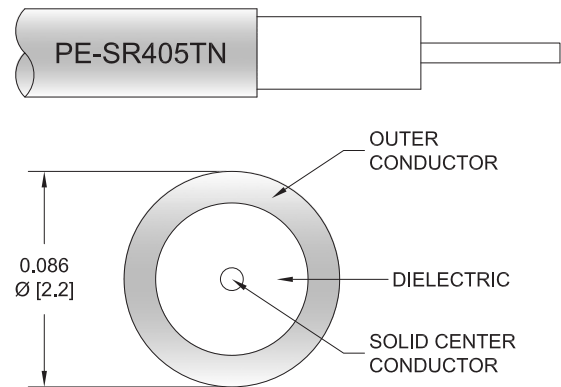
PE3C6302

Configuration

- Connector 1: 2.92mm Male
- Connector 2: SMA Male
- Cable Type: RG405 Tinned
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 18 GHz
- 500 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C6302 2.92mm male to SMA male cable using tinned 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 2.92mm to SMA cable assembly has a male to male gender configuration with 50 ohm semi-rigid RG405 tinned coax. The PE3C6302 2.92mm male to SMA male cable assembly operates to 18 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		18	GHz
VSWR			1.4:1	

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	18000	MHz	
PE3C6302	Custom Lengths Available	Insertion Loss (Typ.)	0.22	0.284	0.446	0.736	1.12	dB/ft	
			0.73	0.94	1.47	2.42	3.68	dB/m	
PE3C6302-6	6 inch	Insertion Loss (Typ.)	0.25	0.3	0.41	0.59	0.83	dB	0.027
PE3C6302-12	12 inch	Insertion Loss (Typ.)	0.36	0.45	0.64	0.96	1.39	dB	0.033
PE3C6302-18	18 inch	Insertion Loss (Typ.)	0.47	0.59	0.86	1.33	1.95	dB	0.04
PE3C6302-24	24 inch	Insertion Loss (Typ.)	0.58	0.73	1.08	1.7	2.51	dB	0.047
PE3C6302-36	36 inch	Insertion Loss (Typ.)	0.8	1.01	1.53	2.43	3.63	dB	0.06

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: 0.04*SQRT(FGHz) dB

Loss due to Connector 2: 0.1 dB

Base Weight: 0.033 pounds

Additional Weight per Inch: 0.00109 pounds

Mechanical Specifications

Cable Assembly

Weight 0.033 lbs [14.97 g]

Cable

Cable Type RG405 Tinned
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 Tinned Copper
One Time Minimum Bend Radius 0.05 in [1.27 mm]

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Connectors

Description	Connector 1	Connector 2
Type	2.92mm Male	SMA Male
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Brass, Gold
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	PEI	PTFE
Body Material and Plating	Beryllium Copper, Gold over Nickel	Stainless Steel, Gold
Body Plating Specification	50 µin minimum	10 µin minimum
Coupling Nut Material and Plating	Passivated Stainless Steel	Brass, Nickel
Coupling Nut Plating Specification	ASTM-A582	100 µin minimum
Hex Size	5/16 inch	5/16 inch
Torque	8 in-lbs 0.9 Nm	3 in-lbs 0.34 Nm

Environmental Specifications

Operating Range Temperature -55 to +125 deg C

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

Plotted and Other Data

Notes:

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PE3C6302

Typical Performance Data

How to Order

Part Number Configuration:

PE3C6302

- xx

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Unit of Measure:
cm = Centimeters
<blank> = Inches

Length
Base Number

Example: PE3C6302-12 = 12 inches long cable
PE3C6302-100cm = 100 cm long cable

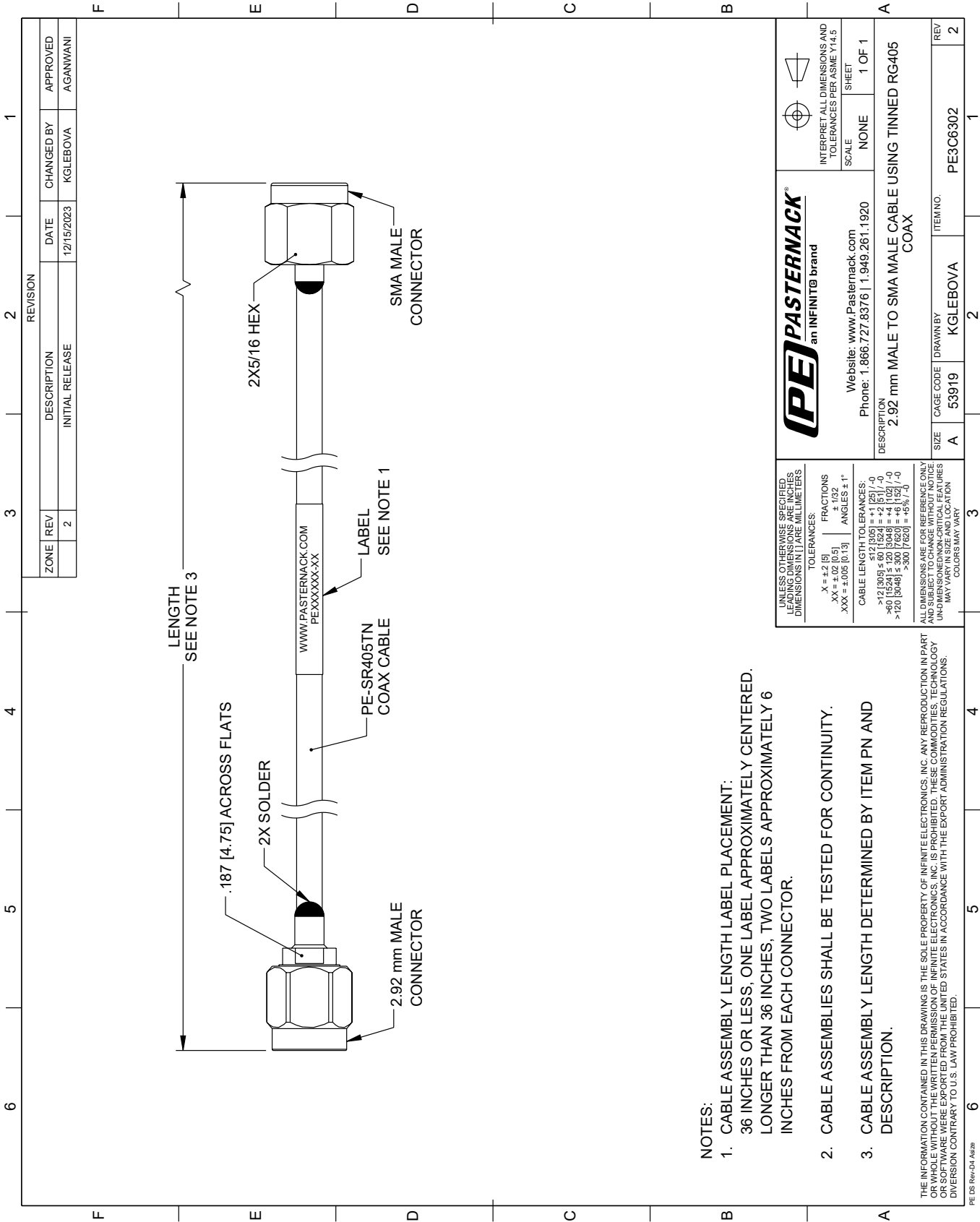
2.92mm Male to SMA Male Cable Using Tinned RG405 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.92mm Male to SMA Male Cable Using Tinned RG405 Coax PE3C6302](https://www.pasternack.com/2.92mm-male-to-sma-male-cable-using-tinned-rg405-pe3c6302-p.aspx)

URL: <https://www.pasternack.com/2.92mm-male-to-sma-male-cable-using-tinned-rg405-pe3c6302-p.aspx>

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PE3C6302 CAD Drawing
2.92mm Male to SMA Male Cable Using Tinned RG405 Coax



- NOTES:
- 1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
 - 2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
 - 3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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