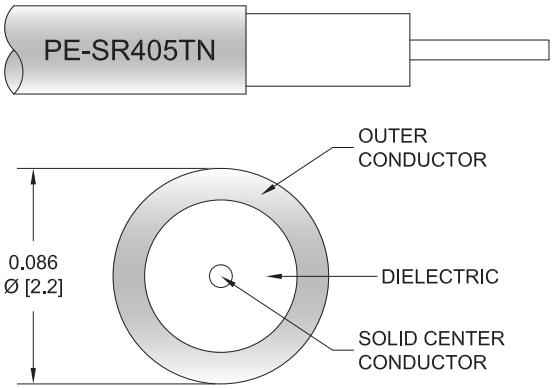
2.92mm Male to 2.92mm Male Cable Using Tinned RG405 Coax

PE3C6300

Configuration

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



Features

- Max Frequency 20 GHz
- 500 Mating Cycles

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C6300 2.92mm male to 2.92mm 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 2.92mm cable assembly has a male to male gender configuration with 50 ohm semi-rigid RG405 tinned coax. The PE3C6300 2.92mm male to 2.92mm male cable assembly operates to 20 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		20	GHz
VSWR			1.3:1	

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	20000	MHz	
PE3C6300	Custom Lengths Available	Insertion Loss (Typ.)	0.22	0.32	0.477	0.735	1.2	dB/ft	
			0.73	1.04	1.57	2.42	3.94	dB/m	
PE3C6300-6	6 inch	Insertion Loss (Typ.)	0.31	0.36	0.44	0.57	0.8	dB	0.023
PE3C6300-12	12 inch	Insertion Loss (Typ.)	0.42	0.52	0.68	0.94	1.4	dB	0.029
PE3C6300-18	18 inch	Insertion Loss (Typ.)	0.53	0.68	0.92	1.31	2	dB	0.036
PE3C6300-24	24 inch	Insertion Loss (Typ.)	0.64	0.84	1.16	1.67	2.6	dB	0.043
PE3C6300-36	36 inch	Insertion Loss (Typ.)	0.86	1.15	1.64	2.41	3.8	dB	0.056

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:	0.029	pounds
Additional Weight per Inch:	0.00109	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.029 lbs [13.15 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	2.92mm Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	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	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel
Body Plating Specification	50 µin minimum	50 µin minimum
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Plating Specification	ASTM-A582	ASTM-A582
Hex Size	5/16 inch	5/16 inch
Torque	8 in-lbs 0.9 Nm	8 in-lbs 0.9 Nm

Environmental Specifications

Operating Range Temperature	-55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

+1 (866) 558-2786 | sales@pasternack.com | pasternack.com

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Typical Performance Data

How to Order

Part Number Configuration: **PE3C6300 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3C6300 — Base Number

Example: PE3C6300-12 = 12 inches long cable
PE3C6300-100cm = 100 cm long cable

2.92mm Male to 2.92mm 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 2.92mm Male Cable Using Tinned RG405 Coax PE3C6300

URL: https://www.pasternack.com/2.92mm-male-to-2.92mm-male-cable-using-tinned-rg405-pe3c6300-p.aspx

PE3C6300 CAD Drawing

2.92mm Male to 2.92mm Male Cable Using Tinned RG405 Coax