



2.92mm Male to 2.92mm Male Cable Using PE-SR405AL Coax

RF Cable Assemblies Technical Data Sheet

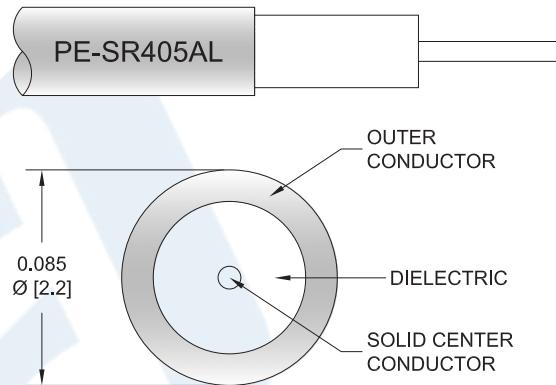
PE3C6092

Configuration

- Connector 1: 2.92mm Male
- Connector 2: 2.92mm Male
- Cable Type: PE-SR405AL

Features

- Max Frequency 40 GHz
- 500 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C6092 2.92mm male to 2.92mm male cable using PE-SR405AL 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 PE-SR405AL coax. The PE3C6092 2.92mm male to 2.92mm 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.

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 PE-SR405AL Coax PE3C6092](#)



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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Frequency Range | DC | | 40 | GHz |
| VSWR | | | 1.4:1 | |
| Operating Voltage (AC) | | | 335 | Vrms |
| Dielectric Withstanding Voltage (AC) | | | 1,000 | Vrms |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|-------|-------|-------|------|-------|
| Frequency | 1 | 2 | 4.5 | 9 | 20 | GHz |
| Insertion Loss (Typ.) | 0.23 | 0.294 | 0.455 | 0.745 | 1.31 | dB/ft |
| | 0.75 | 0.96 | 1.49 | 2.44 | 4.3 | dB/m |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.022 lbs [9.98 g]

Cable

Cable Type PE-SR405AL
 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 Tinned Aluminum

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 |
| Mating Cycles | 500 | 500 |
| Contact Material and Plating | Beryllium Copper, Gold over Nickel | Beryllium Copper, Gold over Nickel |
| Contact Plating Specification | 50 μ in minimum | 50 μ in minimum |
| Dielectric Type | PEI | PEI |
| Body Material and Plating | Beryllium Copper, Gold over Nickel | Beryllium Copper, Gold over Nickel |
| Body Plating Specification | 50 μ in minimum | 50 μ in 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

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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How to Order

Part Number Configuration:

PE3C6092

- **xx**

uu

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

Example: PE3C6092-12 = 12 inches long cable
PE3C6092-100cm = 100 cm long cable

2.92mm Male to 2.92mm Male Cable Using PE-SR405AL 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 PE-SR405AL Coax PE3C6092](#)

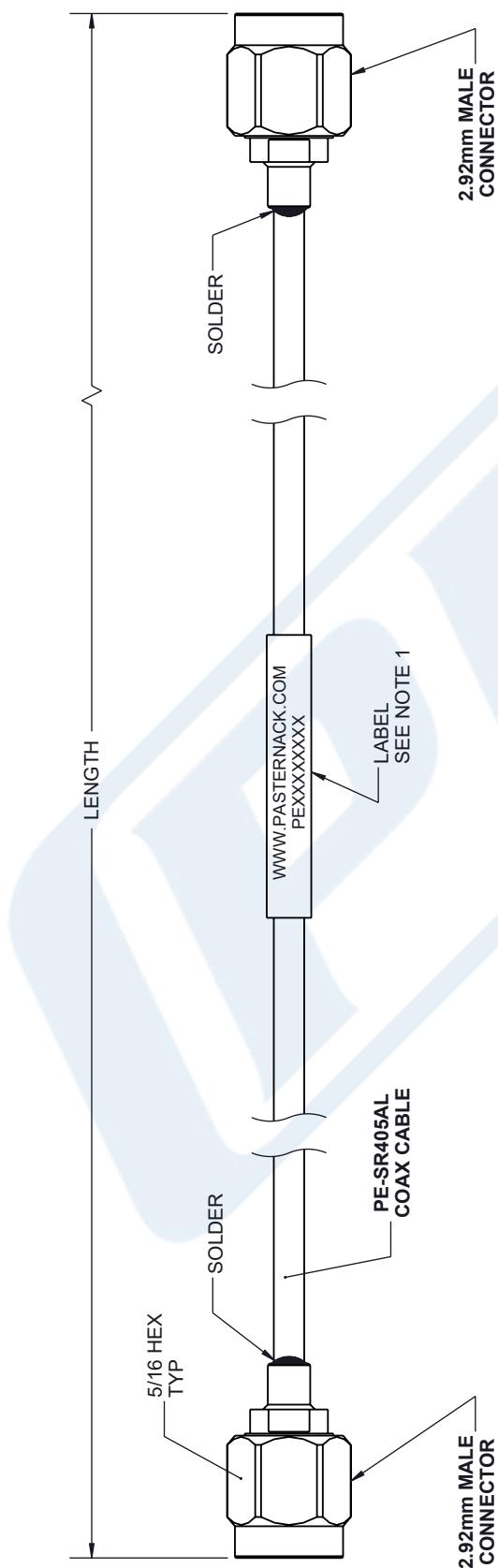
URL: <https://www.pasternack.com/2.92mm-male-to-2.92mm-male-cable-using-pe-sr405al-pe3c6092-p.aspx>

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.

PE3C6092 CAD Drawing

2.92mm Male to 2.92mm Male Cable Using PE-SR405AL Coax

| ZONE | REV. | DESCRIPTION | REV. VERSION | DATE | CHANGED BY | APPROVED |
|------|------|-----------------|--------------|------------|------------|----------|
| | A | INITIAL RELEASE | | 12/17/2022 | KDANG | AGANWANI |



NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
2. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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|--|---|--|--|
|  PASTERNACK® an INFINITI® brand | | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 | |
| UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS | TOLERANCES: X = ± 2 [5] XX = ± 02 [5] XXX = ± 005 [13] | FRACTIONS $\pm 1/32$ ANGLES ± 1° CABLE LENGTH TOLERANCES: ± 12.305 = ± 1 [25] / -0 $>12 [305] \leq 60$ [1524] = ± 2 [51] / -0 $>90 [1124] \leq 120$ [3048] = ± 4 [102] / -0 $>120 [3048] \leq 300$ [7620] = ± 6 [152] / -0 $>300 [7620] \leq 450$ [11430] = ± 9 [228] / -0 | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE NONE 1 OF 1 |
|  | | WEBSITE: www.Pasterнак.com PHONE: 1.866.727.8376 1.949.261.1920 | DESCRIPTION 2.92mm Male to 2.92mm Male Cable Using PE-SR405AL_Coax |
|  | | ITEM NO. KDANG 53919 | REV A PE3C6092 |