PASTERNACK
an INFINITE brand

# 2.92mm Male to 2.4mm Male Cable 100 CM Length Using PE-P103 Coax

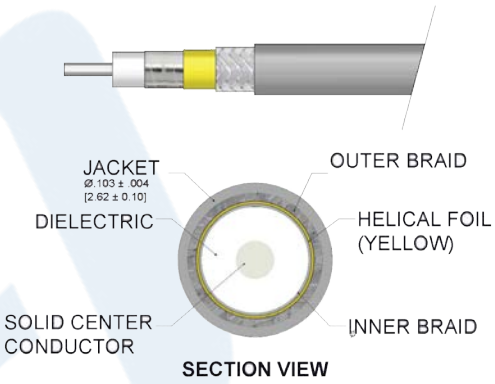
## RF Cable Assemblies Technical Data Sheet PE3C6637-100CM

### Configuration

- Connector 1: 2.92mm Male
- Connector 2: 2.4mm Male
- Cable Type: PE-P103

### Features

- Max Frequency 45 GHz
- Shielding Effectivity > 90 dB
- 76% Phase Velocity
- Triple Shielded
- ETFE Jacket




### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3C6637-100CM 2.92mm male to 2.4mm male 100 cm cable using PE-P103 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack 2.92mm to 2.4mm cable assembly has a male to male gender configuration with 50 ohm flexible PE-P103 coax. The PE3C6637-100CM 2.92mm male to 2.4mm male cable assembly operates to 45 GHz. The triple shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

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 2.4mm Male Cable 100 CM Length Using PE-P103 Coax PE3C6637-100CM

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
**Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

PASTERNACK
an INFINITE brand

# 2.92mm Male to 2.4mm Male Cable 100 CM Length Using PE-P103 Coax

## RF Cable Assemblies Technical Data Sheet PE3C6637-100CM

### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Frequency Range | DC | | 45 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 76 | | % |
| RF Shielding | 90 | | | dB |
| Capacitance | | 26 [85.3] | | pF/ft [pF/m] |
| Inductance | | 65 [213.25] | | uH/ft [uH/m] |
| Input Power (Peak) | | | 550 | Watts |

### Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---|---|---|---|---|---|---|
| Frequency | 2.5 | 5 | 10 | 20 | 45 | GHz |
| Insertion Loss (Max.) | 1.63 | 2.27 | 3.2 | 4.62 | 7.2 | dB |
| Insertion Loss (Typ.) | 1.5 | 2.08 | 2.93 | 4.22 | 6.56 | 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 0.1*SQRT(FGHz) dB per connector.

### Mechanical Specifications

**Cable Assembly**

| | |
|---|---|
| Length* | 39.37 in [100 cm] |
| Diameter | 0.38 in [9.65 mm] |

**Cable**

| | |
|---|---|
| Cable Type | PE-P103 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Stranded |
| Inner Conductor Material and Plating | Copper, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 3 |
| Shield Layer 1 | Silver Plated Copper |
| Shield Layer 2 | Conductive Tape |
| Shield Layer 3 | Silver Plated Copper |
| Jacket Material | ETFE, Gray |
| Jacket Diameter | 0.103 in [2.62 mm] |

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 2.4mm Male Cable 100 CM Length Using PE-P103 Coax PE3C6637-100CM

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
**Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

PASTERNACK
an INFINITE brand

# 2.92mm Male to 2.4mm Male Cable 100 CM Length Using PE-P103 Coax

## RF Cable Assemblies Technical Data Sheet PE3C6637-100CM

| | |
|---|---|
| One Time Minimum Bend Radius | 0.32 in [8.13 mm] |
| Repeated Minimum Bend Radius | 0.96 in [24.38 mm] |
| Typical Flex Cycles | 500,000 |

**Connectors**

| Description | Connector 1 | Connector 2 |
|---|---|---|
| Type | 2.92mm Male | 2.4mm Male |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Specification | ASTM-B488 50µ In. Min | ASTM-B488 50µ In. Min |
| Dielectric Type | PPO | PPO |
| Body Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel |
| Body Plating Specification | SAE-AMS-2700 | SAE-AMS-2700 |
| Coupling Nut Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel |
| Coupling Nut Plating Specification | SAE-AMS-2700 | SAE-AMS-2700 |
| 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 | -45 to +125 deg C |

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

### Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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 2.4mm Male Cable 100 CM Length Using PE-P103 Coax PE3C6637-100CM

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
**Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

PASTERNACK
an INFINITE brand

# 2.92mm Male to 2.4mm Male Cable 100 CM Length Using PE-P103 Coax

## RF Cable Assemblies Technical Data Sheet PE3C6637-100CM

### How to Order

Part Number Configuration: **PE3C6637 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3C6637 — Base Number

Example: PE3C6637-12 = 12 inches long cable
PE3C6637-100cm = 100 cm long cable

2.92mm Male to 2.4mm Male Cable 100 CM Length Using PE-P103 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.

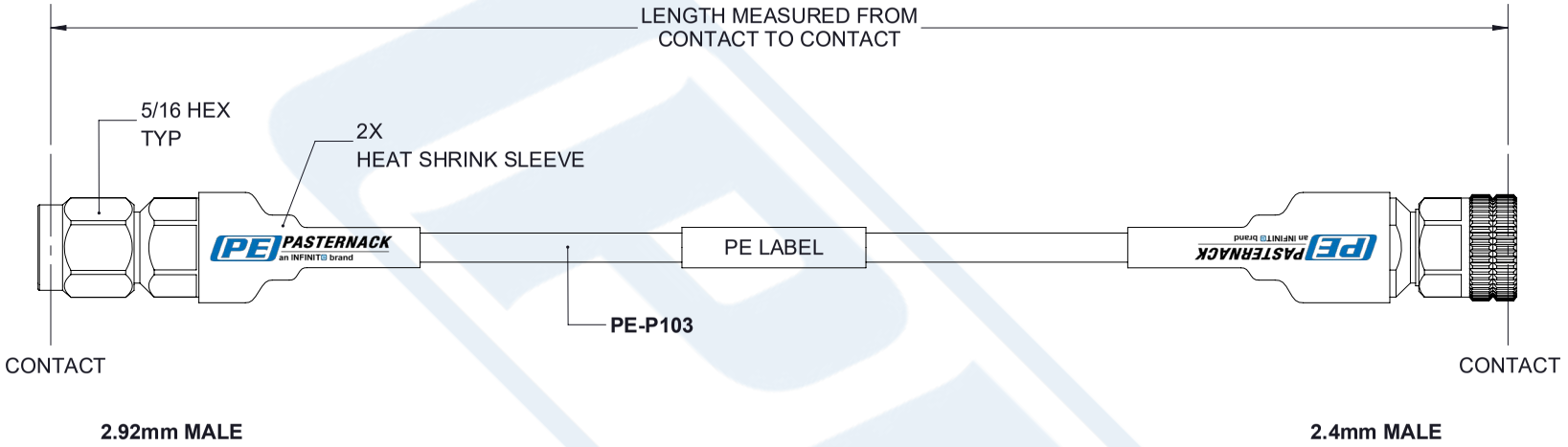
Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: 2.92mm Male to 2.4mm Male Cable 100 CM Length Using PE-P103 Coax PE3C6637-100CM

URL: https://www.pasternack.com/2.92mm-male-2.4mm-male-pe-p103-cable-assembly-pe3c6637-100cm-p.aspx



Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
**Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

| REVISIONS | | | |
|---|---|---|---|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 11/08/19 | S.ELLIS |




PE LABEL:

www.PASTERNACK.com
PE3C6637

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

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.

PASTERNACK
an INFINITE brand

Pasternack Enterprises, Inc.
P.O.Box 16759, Irvine, CA 92623.
Phone: 1.949.261.1920 | 1.866.727.8376
Fax: 1.949.261.7451
Website: www.pasternack.com
E-mail: sales@pasternack.com

THIRD-ANGLE PROJECTION



SHEET 1 OF 1

SCALE N/A

| SIZE | CAGE CODE | DRAWN BY | PART NUMBER | REV |
|---|---|---|---|---|
| A | 53919 | K.DANG | PE3C6637 | A |

# PE3C6637-100CM CAD Drawing

2.92mm Male to 2.4mm Male Cable 100 CM Length Using PE-P103 Coax