



## 2.92mm Male to 1.85mm Male Cable 12 Inch Length Using PE-P103 Coax

### RF Cable Assemblies Technical Data Sheet

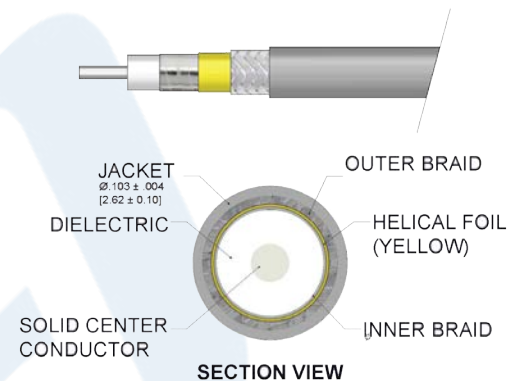
PE3C6636-12

#### Configuration

- Connector 1: 2.92mm Male
- Connector 2: 1.85mm 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 PE3C6636-12 2.92mm male to 1.85mm male 12 inch 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 1.85mm cable assembly has a male to male gender configuration with 50 ohm flexible PE-P103 coax. The PE3C6636-12 2.92mm male to 1.85mm 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 1.85mm Male Cable 12 Inch Length Using PE-P103 Coax PE3C6636-12](#)



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#### 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.)	0.64	0.84	1.12	1.55	2.34	dB
Insertion Loss (Typ.)	0.6	0.78	1.04	1.43	2.14	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  $0.1 \cdot \sqrt{FGHz}$  dB per connector.

#### Mechanical Specifications

##### Cable Assembly

Length*	12 in [304.8 mm]
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]

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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	1.85mm Male
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	ASTM-B488 50 $\mu$ In. Min	ASTM-B488 50 $\mu$ 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.

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PE3C6636-12

**How to Order**

Part Number Configuration:

**PE3C6636**

- **xx**

**uu**

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

Example: PE3C6636-12 = 12 inches long cable  
 PE3C6636-100cm = 100 cm long cable

2.92mm Male to 1.85mm Male Cable 12 Inch 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 1.85mm Male Cable 12 Inch Length Using PE-P103 Coax PE3C6636-12](https://www.pasternack.com/2.92mm-male-1.85mm-male-pe-p103-cable-assembly-pe3c6636-12-p.aspx)

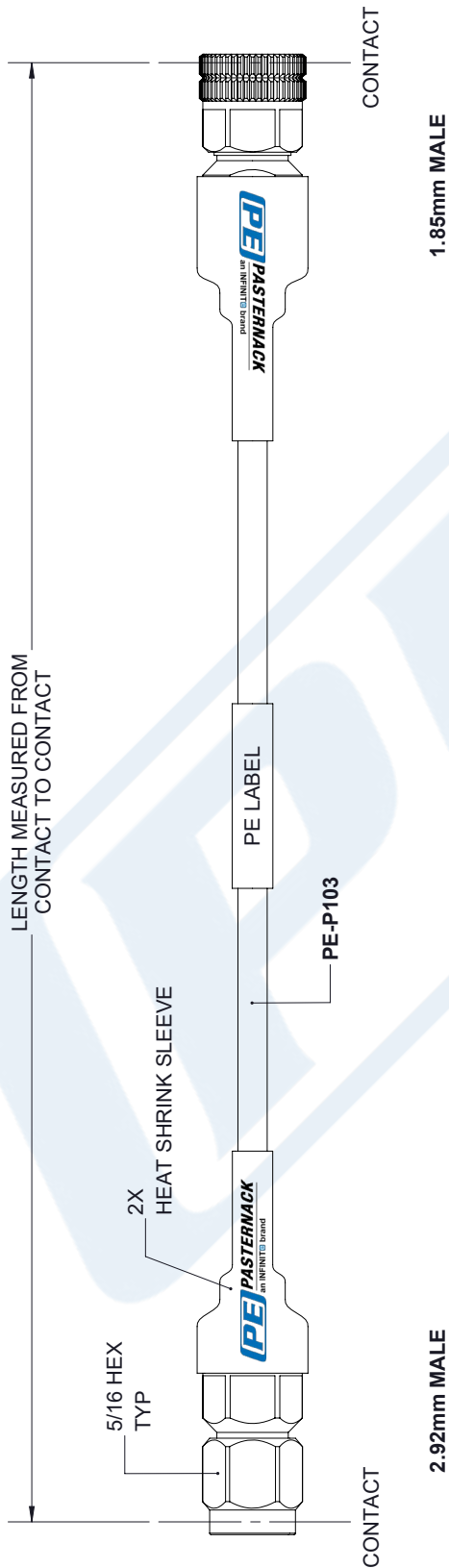
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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.

# PE3C6636-12 CAD Drawing

2.92mm Male to 1.85mm Male Cable 12 Inch Length Using PE-P103 Coax

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



<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <table border="0"> <tr> <td>.X = ±.2</td> <td>[.08]</td> <td>FRACTIONS</td> <td></td> </tr> <tr> <td>.XX = ±.02</td> <td>[.51]</td> <td></td> <td>± 1/32</td> </tr> <tr> <td>.XXX = ±.005</td> <td>[.13]</td> <td>ANGLES ± 1°</td> <td></td> </tr> </table> <p>CABLE LENGTH (L) TOLERANCES:</p> <table border="0"> <tr> <td>L ≤ 12</td> <td>[305]</td> <td>= +1 [25] / -0</td> </tr> <tr> <td>12</td> <td>[305]</td> <td>&lt; L ≤ 60</td> <td>[1524] = +2 [51] / -0</td> </tr> <tr> <td>60</td> <td>[1524]</td> <td>&lt; L ≤ 120</td> <td>[3048] = +4 [102] / -0</td> </tr> <tr> <td>120</td> <td>[3048]</td> <td>&lt; L ≤ 300</td> <td>[7620] = +6 [152] / -0</td> </tr> <tr> <td></td> <td></td> <td>300</td> <td>[7620] &lt; L = +5% / L / -0</td> </tr> </table> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>	.X = ±.2	[.08]	FRACTIONS		.XX = ±.02	[.51]		± 1/32	.XXX = ±.005	[.13]	ANGLES ± 1°		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	<p><b>PE LABEL:</b></p> <p><a href="http://www.PASTERNAK.com">www.PASTERNAK.com</a> PE3C6636</p>	<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p>
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SIZE	CAGE CODE	DRAWN BY	PART NUMBER
A	53919	K.DANG	PE3C6636

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