



### **RF Cable Assemblies Technical Data Sheet**

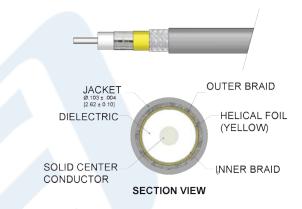
#### PE3C6635-100CM

### Configuration

Connector 1: 2.92mm MaleConnector 2: 2.92mm MaleCable 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 PE3C6635-100CM 2.92mm male to 2.92mm 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 2.92mm cable assembly has a male to male gender configuration with 50 ohm flexible PE-P103 coax. The PE3C6635-100CM 2.92mm male to 2.92mm 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 2.92mm Male Cable 100 CM Length Using PE-P103 Coax PE3C6635-100CM

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





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#### PE3C6635-100CM

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		45	GHz
VSWR		7,55	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 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 Repeated Minimum Bend Radius Typical Flex Cycles 0.32 in [8.13 mm] 0.96 in [24.38 mm] 500,000

#### **Connectors**

Description	Connector 1	Connector 2		
Туре	2.92mm Male	2.92mm 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.

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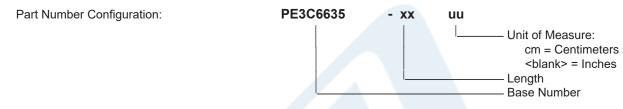




### **RF Cable Assemblies Technical Data Sheet**

### PE3C6635-100CM

#### **How to Order**



Example: PE3C6635-12 = 12 inches long cable PE3C6635-100cm = 100 cm long cable

2.92mm Male to 2.92mm 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 2.92mm Male Cable 100 CM Length Using PE-P103 Coax PE3C6635-100CM

URL: https://www.pasternack.com/2.92mm-male-2.92mm-male-pe-p103-cable-assembly-pe3c6635-100cm-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.

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PE3C6635-100CM CAD Drawing
2.92mm Male to 2.92mm Male Cable 100 CM Length Using PE-P103 Coax

