

# 1.85mm Male to 2.4mm Male Cable 24 Inch Length Using PE-P103 Coax



# **RF Cable Assemblies Technical Data Sheet**

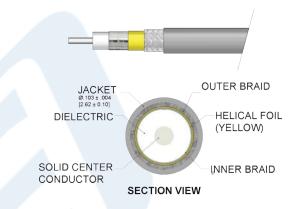
PE3C6639-24

# Configuration

Connector 1: 1.85mm MaleConnector 2: 2.4mm MaleCable Type: PE-P103

#### **Features**

- Max Frequency 50 GHz
- Shielding Effectivity > 90 dB
- 76% Phase Velocity
- Triple Shielded
- ETFE Jacket



# **Applications**

· General Purpose

· Laboratory Use

### Description

Pasternack's PE3C6639-24 1.85mm male to 2.4mm male 24 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 1.85mm to 2.4mm cable assembly has a male to male gender configuration with 50 ohm flexible PE-P103 coax. The PE3C6639-24 1.85mm male to 2.4mm male cable assembly operates to 50 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: 1.85mm Male to 2.4mm Male Cable 24 Inch Length Using PE-P103 Coax PE3C6639-24

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



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### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		50	GHz
VSWR		7,60	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	50	GHz
Insertion Loss (Max.)	1.07	1.47	2.03	2.89	4.75	dB
Insertion Loss (Typ.)	0.99	1.35	1.87	2.65	4.33	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\* 24 in [609.6 mm] Diameter 0.375 in [9.53 mm]

#### Cable

PE-P103 Cable Type 50 Ohms Impedance Inner Conductor Type Stranded Inner Conductor Material and Plating Copper, Silver **PTFE** Dielectric Type Number of Shields Shield Laver 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 Repeated Minimum Bend Radius Typical Flex Cycles 0.32 in [8.13 mm] 0.96 in [24.38 mm] 50,000

#### Connectors

Description	Connector 1	Connector 2		
Туре	1.85mm 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	. 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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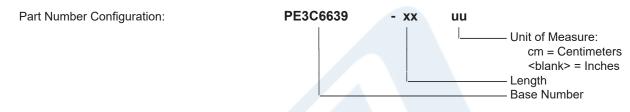
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#### **How to Order**



Example: PE3C6639-12 = 12 inches long cable PE3C6639-100cm = 100 cm long cable

1.85mm Male to 2.4mm Male Cable 24 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: 1.85mm Male to 2.4mm Male Cable 24 Inch Length Using PE-P103 Coax PE3C6639-24

URL: https://www.pasternack.com/1.85mm-male-2.4mm-male-pe-p103-cable-assembly-pe3c6639-24-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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PE3C6639-24 CAD Drawing
1.85mm Male to 2.4mm Male Cable 24 Inch Length Using PE-P103 Coax

