



RF Cable Assemblies Technical Data Sheet

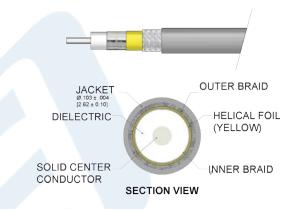
PE3C6639

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 1.85mm male to 2.4mm male 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 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 Using PE-P103 Coax PE3C6639

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





RF Cable Assemblies Technical Data Sheet

PE3C6639

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		50	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

Specificat	ione by	Frequency
Specificat	ions by	rrequency

epochiousions by Froquency						
Description	F1	F2	F3	F4	F5	Units
Frequency	2.5	5	10	20	50	GHz
Insertion Loss (Max.)	0.64	0.84	1.12	1.55	2.48	dB/ft
	2.1	2.76	3.67	5.09	8.14	dB/m
Insertion Loss (Typ.)	0.6	0.78	1.04	1.43	2.27	dB/ft
(71)	1.97	2.56	3.41	4.69	7.45	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1*SQRT(FGHz) dB per connector.

Mechanical Specifications

Cable Assembly

Diameter 0.375 in [9.53 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 Layor 1

Shield Layer 1Silver Plated CopperShield Layer 2Conductive TapeShield Layer 3Silver Plated Copper

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 Using PE-P103 Coax PE3C6639

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





RF Cable Assemblies Technical Data Sheet

PE3C6639

Jacket Material ETFE, Gray

Jacket Diameter 0.103 in [2.62 mm]

One Time Minimum Bend Radius 0.32 in [8.13 mm]
Repeated Minimum Bend Radius 0.96 in [24.38 mm]

Typical Flex Cycles 50,000

Connectors

Description	Connector 1	Connector 2 2.4mm Male	
Туре	1.85mm Male		
Impedance	50 Ohms 50 Ohms		
Contact Material and Plating	Beryllium Copper, Gold Beryllium Coppe		
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: 1.85mm Male to 2.4mm Male Cable Using PE-P103 Coax PE3C6639

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

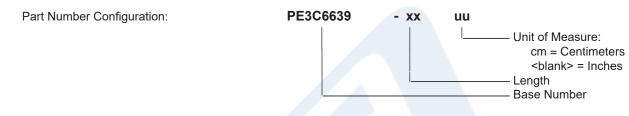




RF Cable Assemblies Technical Data Sheet

PE3C6639

How to Order



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

1.85mm Male to 2.4mm Male Cable 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 Using PE-P103 Coax PE3C6639

URL: https://www.pasternack.com/1.85mm-male-2.4mm-male-pe-p103-cable-assembly-pe3c6639-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.

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

PE3C6639 CAD Drawing
1.85mm Male to 2.4mm Male Cable Using PE-P103 Coax

