



RF Cable Assemblies Technical Data Sheet

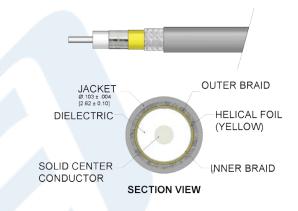
PE3C6633-100CM

Configuration

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

Features

- Max Frequency 26.5 GHz
- Shielding Effectivity > 90 dB
- 76% Phase Velocity
- Triple Shielded
- ETFE Jacket



Applications

· General Purpose

· Laboratory Use

Description

Pasternack's PE3C6633-100CM SMA male to 1.85mm 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 SMA to 1.85mm cable assembly has a male to male gender configuration with 50 ohm flexible PE-P103 coax. The PE3C6633-100CM SMA male to 1.85mm male cable assembly operates to 26.5 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: SMA Male to 1.85mm Male Cable 100 CM Length Using PE-P103 Coax PE3C6633-100CM

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

Minimum	Typical	Maximum	Units
DC		26.5	GHz
	7,60	1.4:1	
	76		%
90			dB
	26 [85.3]		pF/ft [pF/m]
	65 [213.25]		uH/ft [uH/m]
		550	Watts
	DC	DC 76 90 26 [85.3]	DC 26.5 1.4:1 76 90 26 [85.3] 65 [213.25]

Specifications by Frequency

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Description	F1	F2	F3	F4	F5	Units		
Frequency	1	2	4.5	9	26.5	GHz		
Insertion Loss (Max.)	1.11	1.46	2.15	3.03	5.38	dB		
Insertion Loss (Typ.)	1.03	1.34	1.98	2.77	4.91	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 0.35 in [8.89 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, Silver Conductive Tape

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

Connectors

SMA Male	1.85mm Male	
50 Ohms	50 Ohms	
Beryllium Copper, Gold	Beryllium Copper, Gold	
ASTM-B488 50µ In. Min	ASTM-B488 50µ In. Min	
PTFE	PPO	
Passivated Stainless Steel	Passivated Stainless Steel	
SAE-AMS-2700	SAE-AMS-2700	
Passivated Stainless Steel	Passivated Stainless Steel	
SAE-AMS-2700	SAE-AMS-2700	
5/16 Inch	5/16 Inch	
8 in-lbs [0.9 Nm]	8 in-lbs [0.9 Nm]	
	50 Ohms Beryllium Copper, Gold ASTM-B488 50μ In. Min PTFE Passivated Stainless Steel SAE-AMS-2700 Passivated Stainless Steel SAE-AMS-2700 5/16 Inch	

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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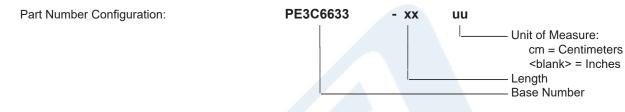




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How to Order



Example: PE3C6633-12 = 12 inches long cable PE3C6633-100cm = 100 cm long cable

SMA Male to 1.85mm 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.

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URL: https://www.pasternack.com/sma-male-1.85mm-male-pe-p103-cable-assembly-pe3c6633-100cm-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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PE3C6633-100CM CAD Drawing
SMA Male to 1.85mm Male Cable 100 CM Length Using PE-P103 Coax

