

1.85mm Male to 2.4mm Male Cable 36 Inch Length Using ET-P103 Coax



RF Cable Assemblies Technical Data Sheet

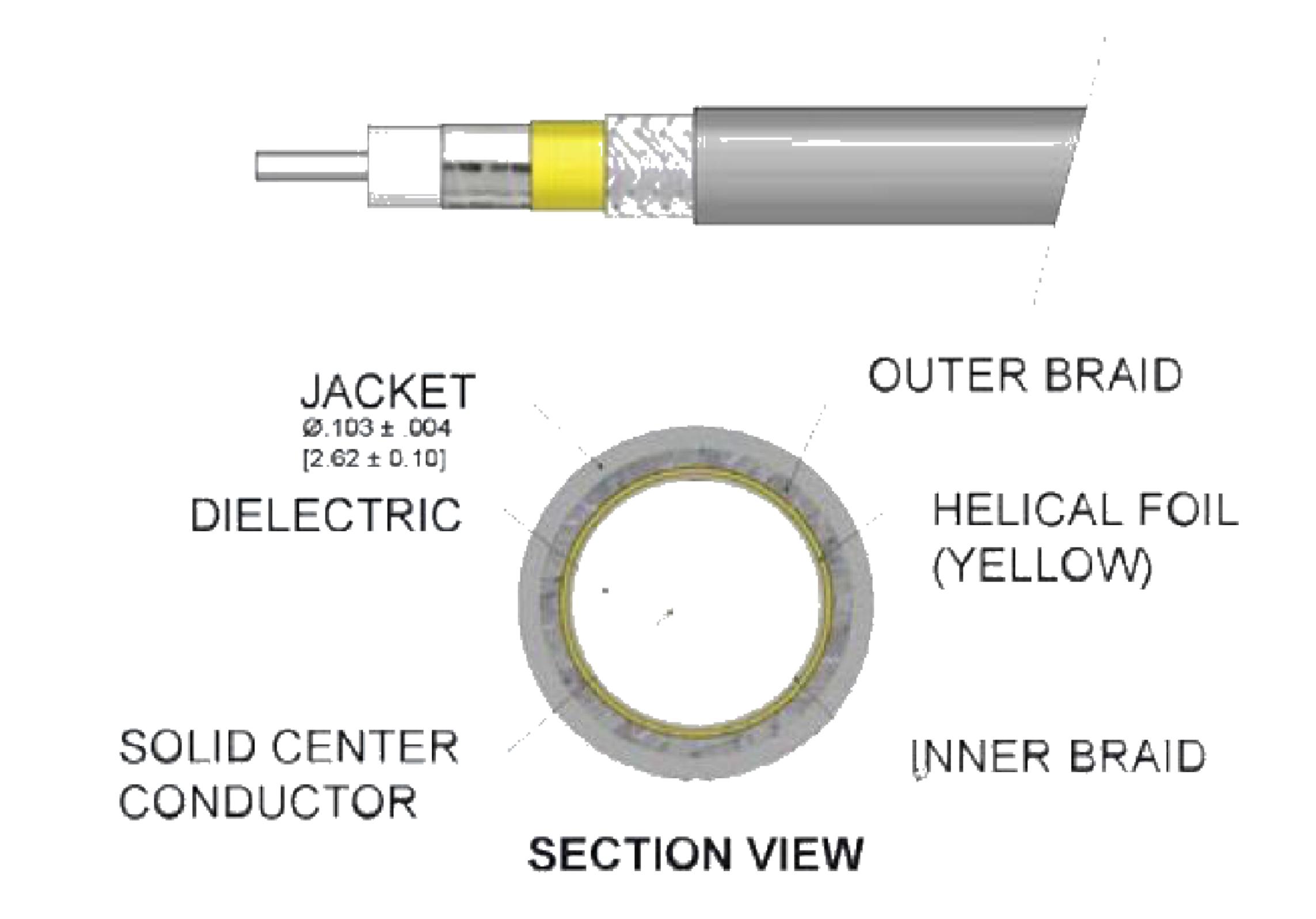
ET13315

Configuration

Connector 1: 1.85mm Male
Connector 2: 2.4mm Male
Cable Type: ET-P103

Features

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



Applications

General Purpose

Laboratory Use

Description

Ebeestock's ET13315 1.85mm male to 2.4mm male 36 inch cable using ET-P103 coax is part of our full line of RF components available for same-day shipping. Ebeestock's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Ebeestock 1.85mm to 2.4mm cable assembly has a male to male gender configuration with 50 ohm flexible ET-P103 coax. The ET13315 1.85mm male to 2.4mm male cable assembly operates to 50 GHz. The triple shielding of this Ebeestock 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 36 Inch Length Using ET-P103 Coax ET13315

8th Floor, Building 1, Yongfu Science and Technology Center Industrial Park, Nanzha District 5, Humen,523900, Dongguan, Guangdong, China.



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		50	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	50	GHz
Insertion Loss (Max.)	1.51	2.1	2.94	4.24	7.02	dB
Insertion Loss (Typ.)	1.39	1.92	2.7	3.87	6.4	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* 36 in [914.4 mm]
Diameter 0.375 in [9.53 mm]

Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields

ET-P103
50 Ohms
Stranded
Copper, Silver
PTFE
3

Shield Layer 1
Shield Layer 2
Conductive Tape
Shield Layer 3
Silver Plated Copper

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 2.4mm Male	
Туре	1.85mm 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 Stee	
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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How to Order

Part Number Configuration:

ET3C6639
- xx uu

——Unit of Measure:

cm = Centimeters

Length

Base Number

Example: ET3C6639-12 = 12 inches long cable ET3C6639-100cm = 100 cm long cable

1.85mm Male to 2.4mm Male Cable 36 Inch Length Using ET-P103 Coax from Ebeestock 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.ebeestock.com/1-85mm-male-to-2-4mm-male-cable-12-inch-length-using-pe-p103-coax-0013313

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. Ebeestock reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Ebeestock does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Ebeestock does not assume any liability arising out of the use of any part or documentation.

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