



RF Cable Assemblies Technical Data Sheet

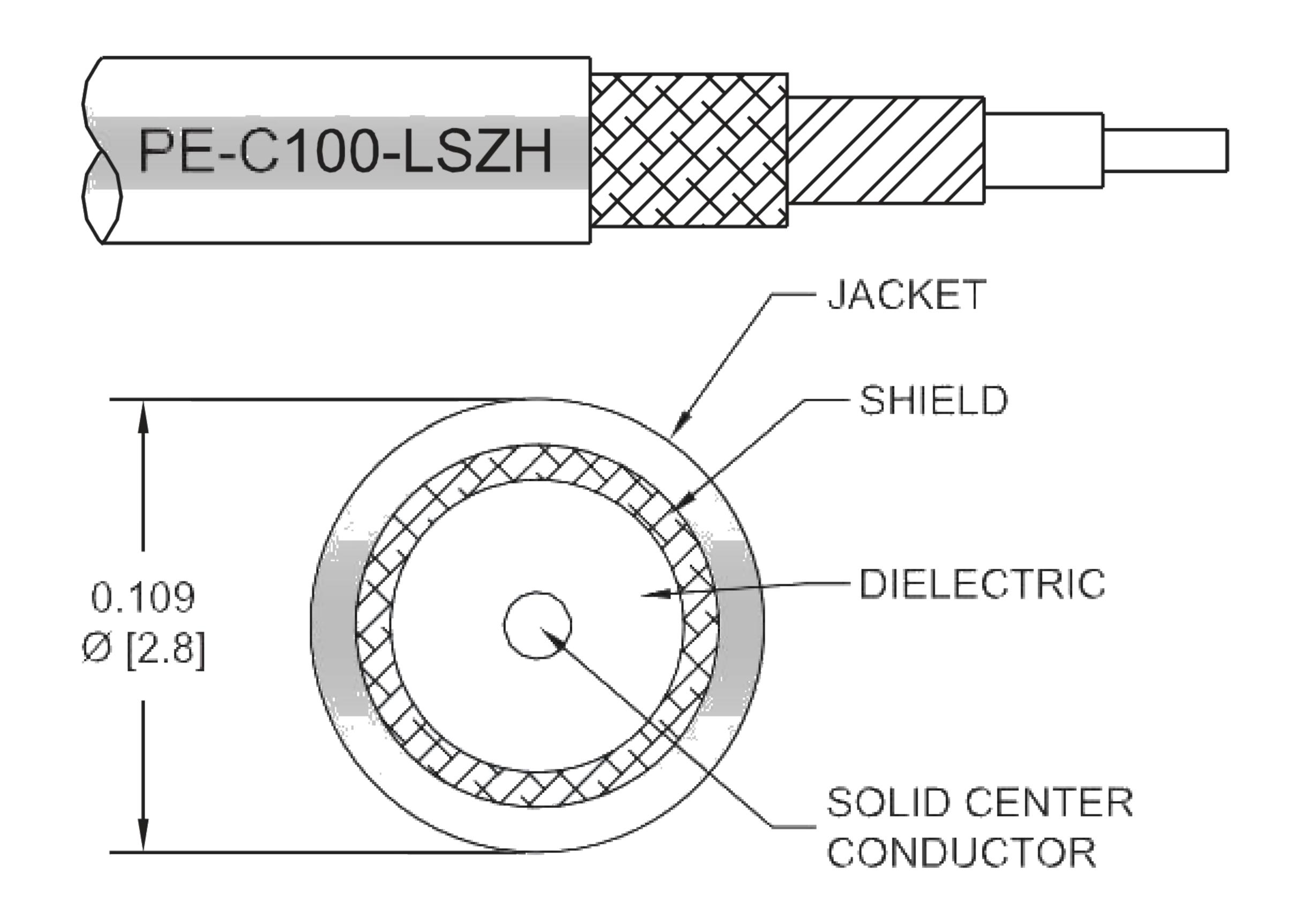
ET22264

Configuration

Connector 1: FAKRA Plug
Connector 2: SMA Female
Cable Type: ET-C100-LSZH

Features

- Max Frequency 4 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- LSZH Jacket



Applications

General Purpose

Laboratory Use

Description

Ebeestock's ET22264 blue FAKRA plug to SMA female 36 inch cable using ET-C100-LSZH 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 FAKRA to SMA cable assembly has a plug to female gender configuration with 50 ohm flexible ET-C100-LSZH coax. The ET22264 FAKRA plug to SMA female cable assembly operates to 4 GHz. The double 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: Blue FAKRA Plug to SMA Female Cable Using ET-C100-LSZH Coax In 36 Inch Length ET22264





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
RF Shielding	90			dB
Group Delay		1.62 [5.31]		ns/ft[ns/m]
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Inductance		0.077 [0.25]		uH/ft [uH/m]
DC Resistance Inner Conductor		81 [265.75]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		9.5 [31.17]		Ω/1000ft [Ω/Km]
Jacket Spark			2,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	4	GHz
Insertion Loss (Typ.)	0.28	0.45	0.64	0.92	1.97	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1*SQRT(FGHz) dB per connector.

Mechanical Specifications

Cable Assembly

Length* 36 in [914.4 mm]
Weight 0.043 lbs [19.5 g]

Cable

Cable Type ET-C100-LSZH Impedance 50 Ohms Inner Conductor Type Solid

Inner Conductor Material and Plating Copper Clad Steel

Dielectric Type

Number of Shields

2

Shield Layer 1
Shield Layer 2
Tinned Copper Braid
LSZH, Black
Jacket Diameter

Aluminum Tape
Tinned Copper Braid
LSZH, Black
0.109 in [2.77 mm]

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One Time Minimum Bend Radius

Repeated Minimum Bend Radius

1 in [25.4 mm]

Bending Moment

7 lot Plate Crush

Tensile Strength

0.25 in [6.35 mm]

1 in [25.4 mm]

0.1 lbs-ft [0.14 N-m]

10 lbs/in [0.18 Kg/mm]

15 lbs [6.8 Kg]

Connectors

Description	Connector 1	Connector 2	
Туре	FAKRA Plug	SMA Female	
Specification		MIL-STD-348	
Impedance	50 Ohms	50 Ohms	
Configuration	Straight	Straight	
Mating Cycles		100	
Contact Material and Plating	Phosphor Bronze, Gold	Beryllium Copper, Gold	
Contact Plating Specification		ASTM-B488	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating	Brass, Nickel		
Body Material and Plating	Plastic	Brass, Nickel	
Body Plating Specification		ASTM-B689	

Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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How to Order

Example: ET3C5987-12 = 12 inches long cable

ET3C5987-100cm = 100 cm long cable

Blue FAKRA Plug to SMA Female Cable Using ET-C100-LSZH Coax In 36 Inch Length 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/blue-fakra-plug-to-sma-female-cable-using-pe-c100-lszh-coax-in-1 2-inch-length-0022262

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.

