

SMA Female Bulkhead to Water Blue FAKRA Jack Cable 36 Inch Length Using ET38358 Coax with HeatShrink



RF Cable Assemblies Technical Data Sheet

ET22745

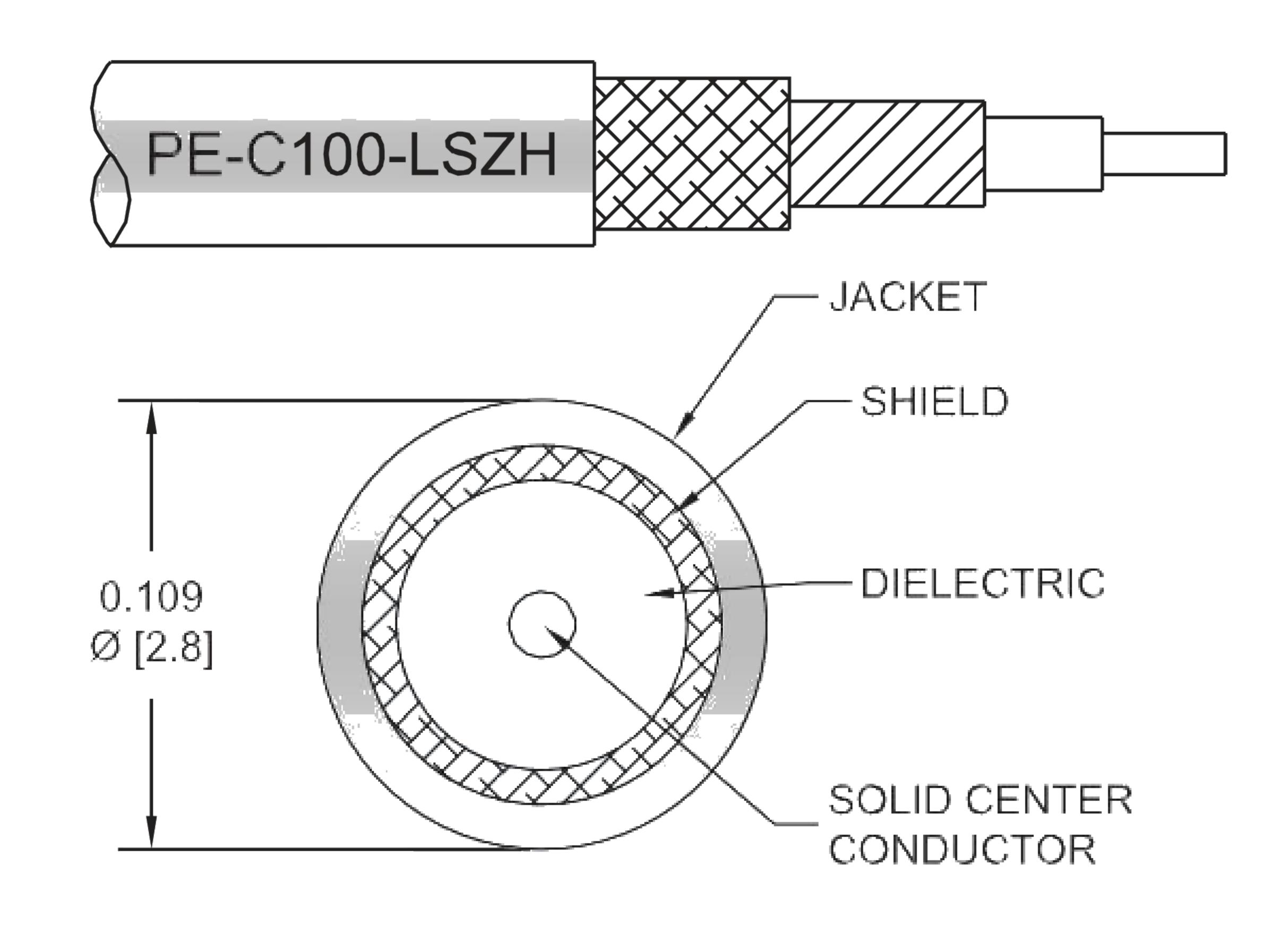
Configuration

Connector 1: SMA Female Bulkhead

Connector 2: FAKRA Jack
 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 ET22745 SMA female bulkhead to water blue FAKRA jack 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 SMA to FAKRA cable assembly has a female to jack gender configuration with 50 ohm flexible ET-C100-LSZH coax. The ET22745 SMA female to FAKRA jack cable assembly operates to 4 GHz. Our RF cable assembly with SMA bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. The double shielding of this Ebeestock cable assembly provides excellent shielding effectiveness of better than 90dB.

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 Female Bulkhead to Water Blue FAKRA Jack Cable 36 Inch Length Using ET-C100-LSZH Coax with HeatShrink ET22745



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR			1.5:1	
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]		Ohms/1000ft [Ohms/
Km]				
DC Resistance Outer Conductor		9.5 [31.17]		Ohms/1000ft [Ohms/
Km]				
Jacket Spark			2,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	4	GHz
Insertion Loss (Max.)	0.55	0.7	0.92	1.42	1.77	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2dB of connector loss.

Mechanical Specifications

Cable Assembly

Length* 36 in [914.4 mm]

Diameter 0.433 in [11 mm]

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
Aluminum Tape
Tinned Copper Braid

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Jacket Material
LSZH, Black
Jacket Diameter
0.109 in [2.77 mm]

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

	Connector 2 FAKRA Jack	
SMA Female Bulkhead		
50 Ohms	50 Ohms	
Straight	Straight	
Beryllium Copper, Gold	Phosphor Bronze, Gold	
PTFE	PTFE	
Brass, Gold	Brass, Nickel	
Brass, Gold	Plastic	
	50 Ohms Straight Beryllium Copper, Gold PTFE Brass, Gold	

Mechanical Specification Notes:

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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^{*}All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.



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Base Number

How to Order

Example: ET3W04917/HS-12 = 12 inches long cable

ET3W04917/HS-100cm = 100 cm long cable

SMA Female Bulkhead to Water Blue FAKRA Jack Cable 36 Inch Length Using ET-C100-LSZH Coax with HeatShrink 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/sma-female-bulkhead-to-water-blue-fakra-jack-cable-12-inch-lengt h-using-pe-c100-lszh-coax-with-heatshrink-0022743

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