

Water Blue FAKRA Jack to FAKRA Plug Cable 50 cm Length Using ET-LMR-100 Coax with HeatShrink



RF Cable Assemblies Technical Data Sheet

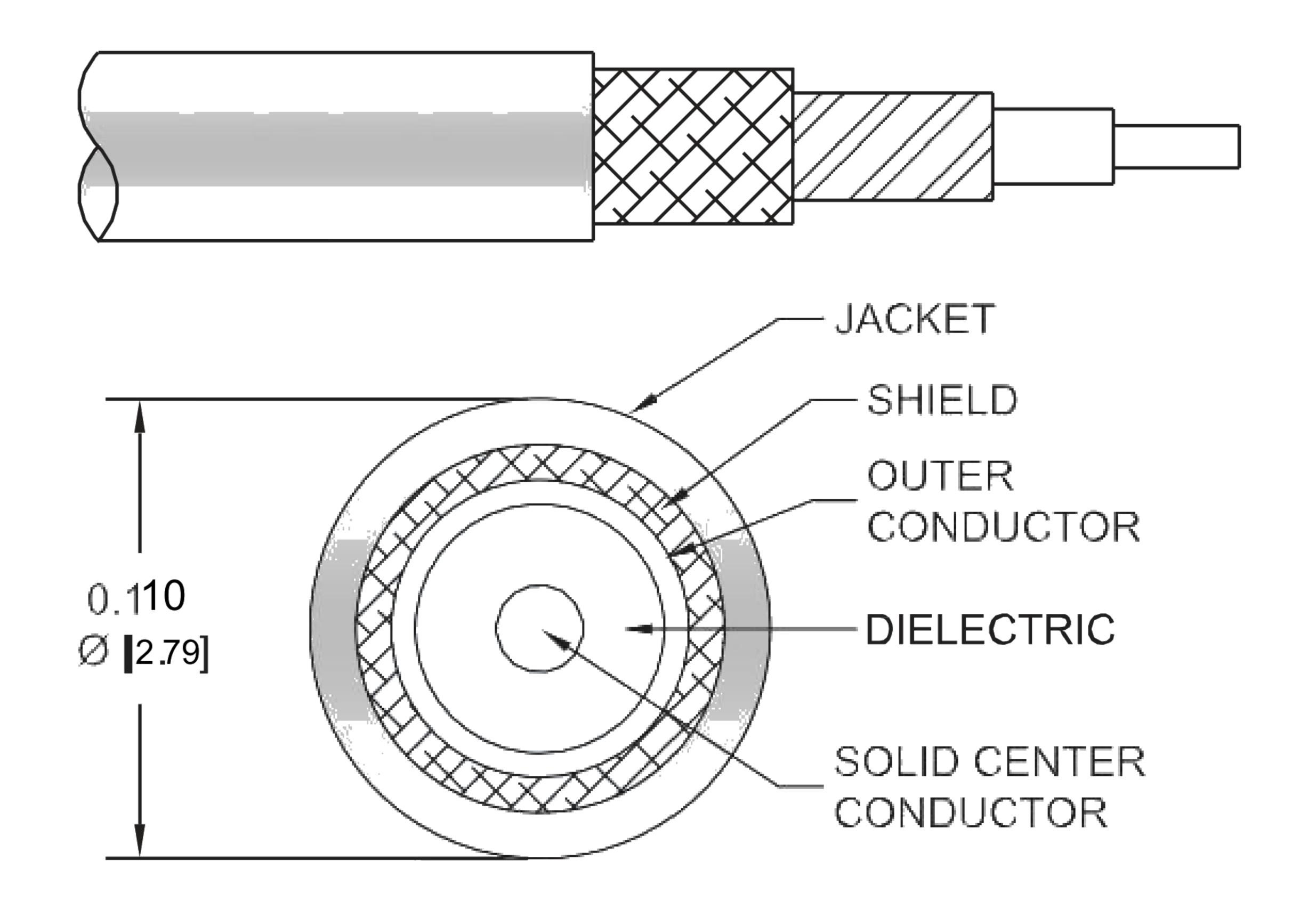
ET22258

Configuration

Connector 1: FAKRA Jack
Connector 2: FAKRA Plug
Cable Type: ET-LMR-100A

Features

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



Applications

General Purpose

Laboratory Use

Description

Ebeestock's ET22258 water blue FAKRA jack to FAKRA plug 50 cm cable using ET-LMR-100 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 FAKRA cable assembly has a jack to plug gender configuration with 50 ohm flexible ET-LMR-100A coax. The ET22258 FAKRA jack to FAKRA plug cable assembly operates to 4 GHz. The double shielding of this Ebeestock cable assembly provides excellent shielding effectiveness of bet- ter 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: Water Blue FAKRA Jack to FAKRA Plug Cable 50 cm Length Using ET-LMR-100 Coax with Heat-Shrink ET22258

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		4	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
RF Shielding	90			dB
Group Delay		1.54 [5.05]		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 (Max.)	0.29	0.32	0.36	0.44	0.95	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Length* 19.68 in [499.87 mm] 0.37 in [9.4 mm] Diameter

Cable

ET-LMR-100A Cable Type 50 Ohms Impedance Inner Conductor Type Solid

Inner Conductor Material and Plating Copper Clad Steel

PE Dielectric Type Number of Shields

Aluminum Tape Shield Layer 1 Shield Layer 2 Tinned Copper Braid

Jacket Material PVC, Black 0.11 in [2.79 mm] Jacket Diameter

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One Time Minimum Bend Radius
Repeated Minimum Bend Radius
Bending Moment
Flat Plate Crush
Tensile Strength

15 lbs [6.8 Kg]

0.25 in [6.35 mm]

0.1 lbs-ft [0.14 N-m]

10 lbs/in [0.18 Kg/mm]

1 in [25.4 mm]

Connectors

Description	Connector 1	Connector 2 FAKRA Plug	
Type	FAKRA Jack		
Impedance	50 Ohms	50 Ohms	
Configuration	Straight	Straight	
Contact Material and Plating	Phosphor Bronze, Gold	Phosphor Bronze, Gold	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating	Brass, Nickel	Brass, Nickel	
Body Material and Plating	Plastic	Plastic	

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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www.ebeestock.com

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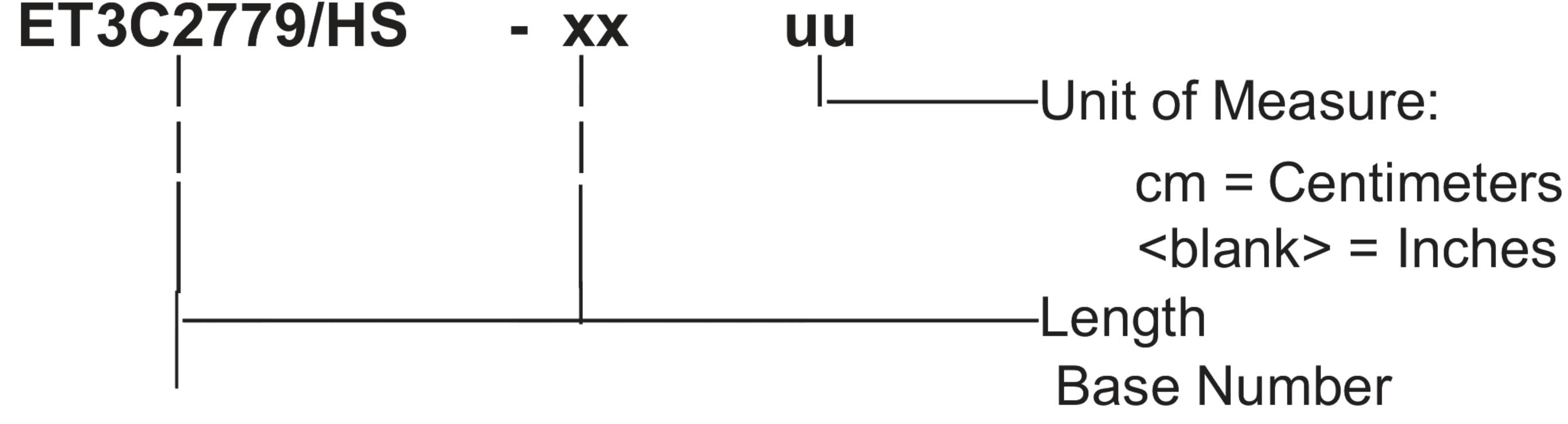


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How to Order

Part Number Configuration: ET3C2



Example: ET3C2779/HS-12 = 12 inches long cable

ET3C2779/HS-100cm = 100 cm long cable

Water Blue FAKRA Jack to FAKRA Plug Cable 50 cm Length Using ET-LMR-100 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/water-blue-fakra-jack-to-fakra-plug-cable-12-inch-length-using-

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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