



RF Cable Assemblies Technical Data Sheet

ET22302

Configuration

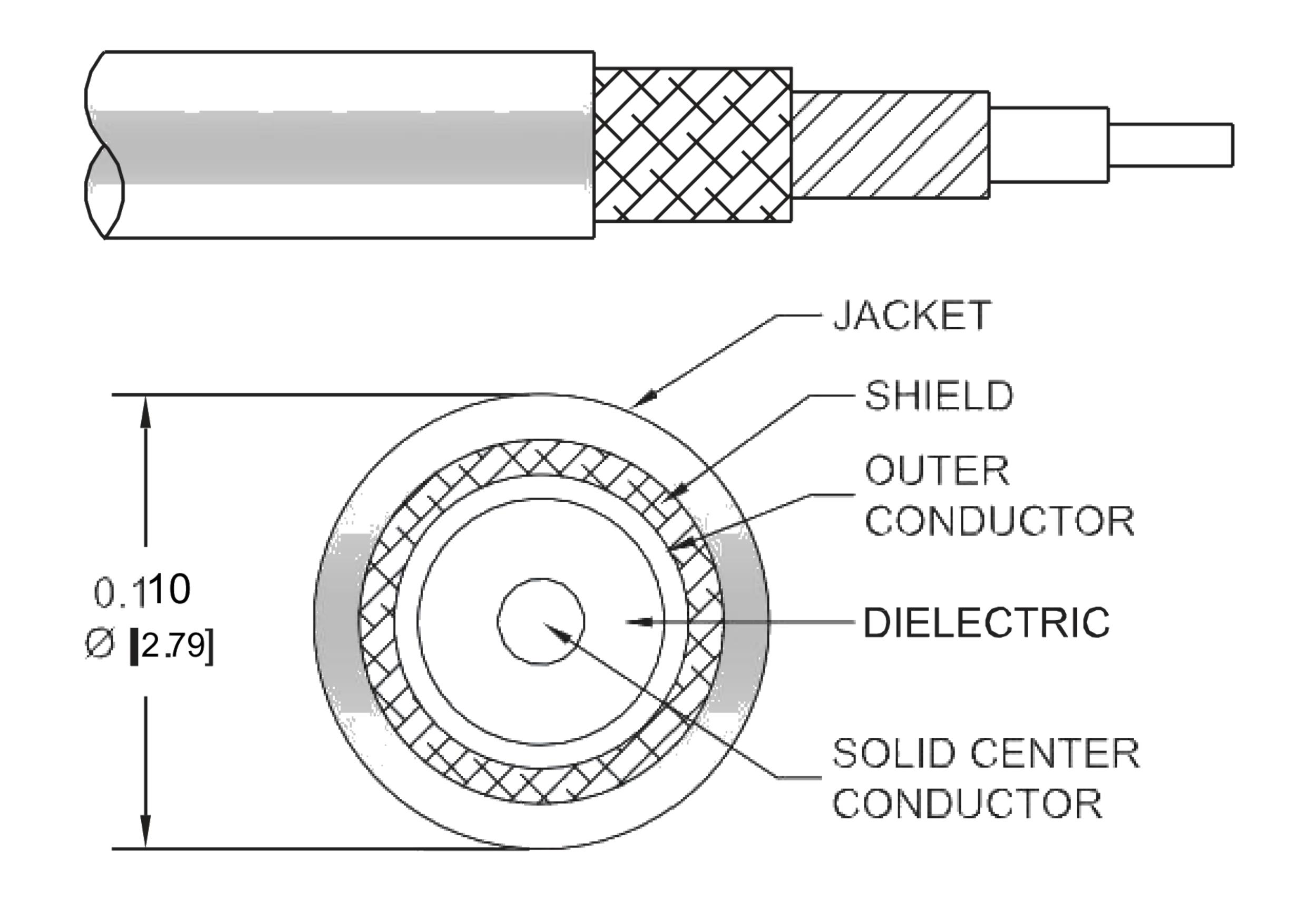
Connector 1: FAKRA Jack

Connector 2: TNC Male Reverse Polarity

Cable Type: ET-LMR-100A

Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



Applications

General Purpose

Laboratory Use

Description

Ebeestock's ET22302 water blue FAKRA jack to reverse polarity TNC male 60 inch 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 reverse polarity TNC cable assembly has a jack to male gender configuration with 50 ohm flexible ET-LMR-100A coax. The ET22302 FAKRA jack to reverse polarity TNC male cable assembly operates to 3 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: Water Blue FAKRA Jack to Reverse Polarity TNC Male Low Loss Cable 60 Inch Length Using ET-LMR-100 Coax ET22302





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.5:1	
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]		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	3	GHz
Insertion Loss (Max.)	0.775	1.025	1.389	2.19	2.369	dB

Electrical Specification Notes:

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

Mechanical Specifications

Cable Assembly

Length* 60 in [152.4 cm]
Diameter 0.571 in [14.5 mm]

Cable

Cable Type
Impedance
Inner Conductor Type

ET-LMR-100A
50 Ohms
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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www.ebeestock.com





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

One Time Minimum Bend Radius

Repeated Minimum Bend Radius

1 in [25.4 mm]

Bending Moment

7 lbs-ft [0.14 N-m]

Flat Plate Crush

Tensile Strength

15 lbs [6.8 Kg]

Connectors

Description	Connector 1	Connector 2 TNC Male Reverse Polarity	
Туре	FAKRA Jack		
Specification		MIL-C-39012	
Impedance	50 Ohms	50 Ohms	
Configuration	Straight	Straight	
Contact Material and Plating	Phosphor Bronze, Gold	Brass, Gold	
Contact Plating Specification		30 µin minimum	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating	Brass, Nickel		
Body Material and Plating	Plastic	Brass, Nickel	
Body Plating Specification		100 μin minimum	
Coupling Nut Material and Plating		Brass, Nickel	
Coupling Nut Plating Specification		100 μin minimum	

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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How to Order

Part Number Configuration:

ET3W03361
- xx uu

Unit of Measure:

cm = Centimeters

chlank> = Inches

Base Number

Example: ET3W03361-12 = 12 inches long cable

ET3W03361-100cm = 100 cm long cable

Water Blue FAKRA Jack to Reverse Polarity TNC Male Low Loss Cable 60 Inch Length Using ET-LMR-100 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/water-blue-fakra-jack-to-reverse-polarity-tnc-male-low-loss-cable e-12-inch-length-using-lmr-100-coax-0022298

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.

