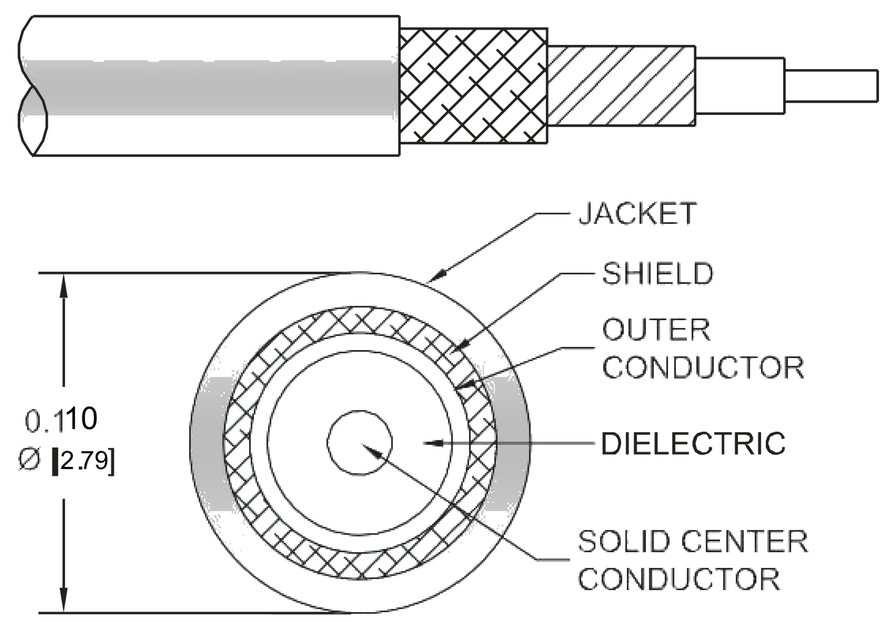
Water Blue FAKRA Jack to Reverse Polarity TNC Male Low Loss Cable 100 cm Length Using ET-LMR-100 Coax

RF Cable Assemblies Technical Data Sheet ET22304

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 ET22304 water blue FAKRA jack to reverse polarity TNC male 100 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 reverse polarity TNC cable assembly has a jack to male gender configuration with 50 ohm flexible ET-LMR-100A coax. The ET22304 FAKRA jack to reverse polarity TNC male cable assembly operates to 3 GHz. The double shielding of this Ebeestock cable assembly provides excel- lent 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 avail- able RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom label- ing. 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 100 cm Length Using ET-LMR-100 Coax ET22304

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

Webstie:www.ebeestock.com Email:sales@ebeestock.com

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RF Cable Assemblies Technical Data Sheet ET22304

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.)	0.577	0.741	0.98	1.505	1.623	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*	39.37 in [100 cm]
Diameter	0.571 in [14.5 mm]

Cable

Cable Type	ET-LMR-100A
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel
Dielectric Type	PE
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid

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RF Cable Assemblies Technical Data Sheet ET22304

Jacket Material	PVC, Black
Jacket Diameter	0.11 in [2.79 mm]
One Time Minimum Bend Radius	0.25 in [6.35 mm]
Repeated Minimum Bend Radius	1 in [25.4 mm]
Bending Moment	0.1 lbs-ft [0.14 N-m]
Flat Plate Crush	10 lbs/in [0.18 Kg/mm]
Tensile Strength	15 lbs [6.8 Kg]

Connectors

Description	Connector 1	Connector 2
Type	FAKRA Jack	TNC Male Reverse Polarity
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:
*All cable assemblies have a length tolerance of 1.5% or ± 3/8”, whichever is greater.

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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RF Cable Assemblies Technical Data Sheet ET22304

How to Order

Part Number Configuration: **ET3W03361 - xx uu**

- ET3W03361 — Base Number
- xx — Length
- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches

Example: ET3W03361-12 = 12 inches long cable
ET22304 = 100 cm long cable

Water Blue FAKRA Jack to Reverse Polarity TNC Male Low Loss Cable 100 cm 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.

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 100 cm Length Using ET-LMR-100 Coax ET22304

URL: https://www.ebeestock.com/water-blue-fakra-jack-to-reverse-polarity-tnc-male-low-loss-cable-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.

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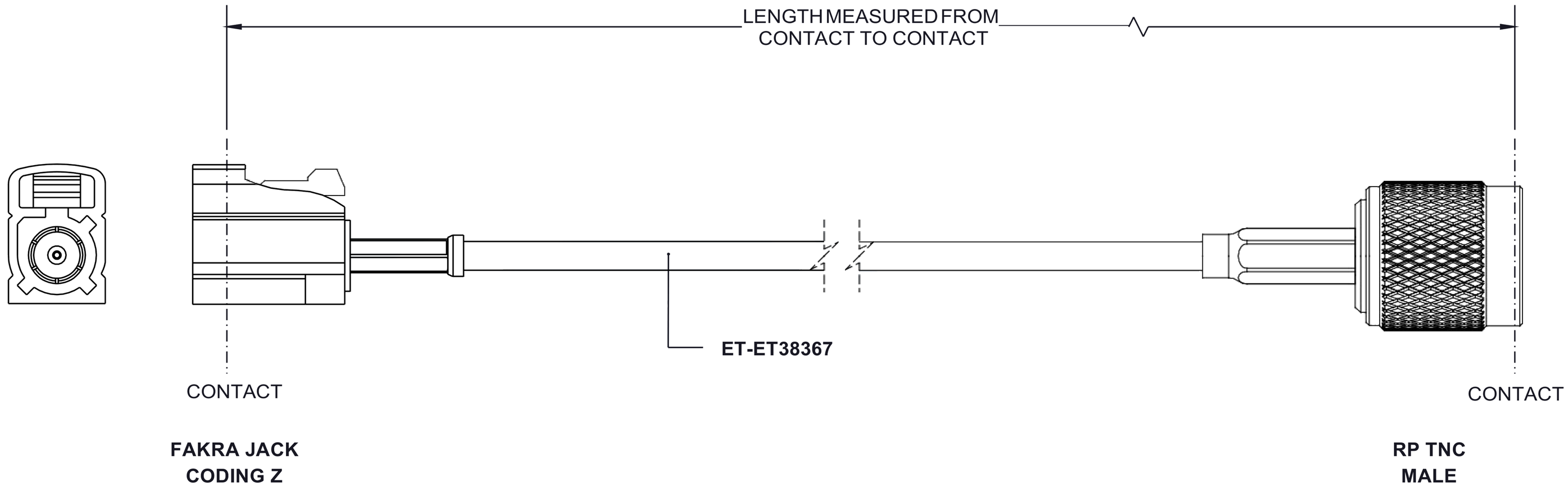
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	04/30/19	S.ELLIS



UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X=± .2 [5.08] | FRACTIONS

.XX=± .01 [.25] | ± 1/32

.XXX=± .005 [.13] | ANGLES ± 1°

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

THIRD ANGLE PROJECTION

ebeestock
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SHEET 1 OF 1

SCALE N/A

SIZE	CAGE	DRAWN BY	PART NUMBER	REV
A	53919	K.DANG	ET3W03361	A

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