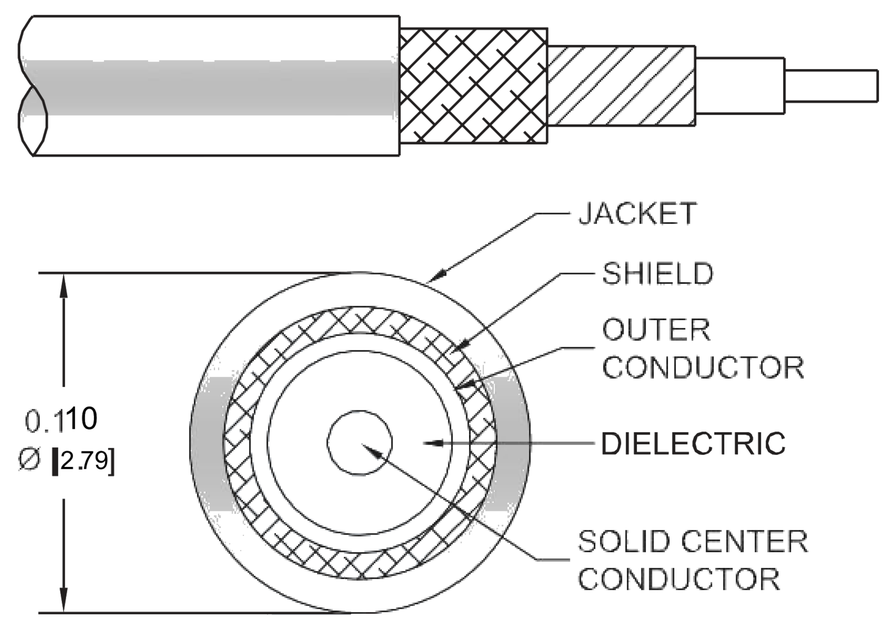
Water Blue FAKRA Jack to Reverse Polarity TNC Male Low Loss Cable 12 Inch Length Using ET-LMR-100 Coax

# RF Cable Assemblies Technical Data Sheet ET22298

## 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 ET22298 water blue FAKRA jack to reverse polarity TNC male 12 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 ET22298 FAKRA jack to reverse polar- ity 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 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 12 Inch Length Using ET-LMR-100 Coax ET22298

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

© 2022 Ebeestock Enterprises All Rights Reserved

Water Blue FAKRA Jack to Reverse Polarity TNC Male Low Loss Cable 12 Inch Length Using ET-LMR-100 Coax

# RF Cable Assemblies Technical Data Sheet ET22298

## 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.) | 0.314 | 0.365 | 0.438 | 0.597 | 0.634 | 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* | 12 in [304.8 mm] |
| 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 |

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 12 Inch Length Using ET-LMR-100 Coax ET22298

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

© 2022 Ebeestock Enterprises All Rights Reserved

Water Blue FAKRA Jack to Reverse Polarity TNC Male Low Loss Cable 12 Inch Length Using ET-LMR-100 Coax

# RF Cable Assemblies Technical Data Sheet ET22298

| | |
|---|---|
| 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:

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 12 Inch Length Using ET-LMR-100 Coax ET22298

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

© 2022 Ebeestock Enterprises All Rights Reserved

Water Blue FAKRA Jack to Reverse Polarity TNC Male Low Loss Cable 12 Inch Length Using ET-LMR-100 Coax

# RF Cable Assemblies Technical Data Sheet ET22298

## How to Order

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

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

Example: ET22298 = 12 inches long cable
ET3W03361-100cm = 100 cm long cable

Water Blue FAKRA Jack to Reverse Polarity TNC Male Low Loss Cable 12 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.

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 12 Inch Length Using ET-LMR-100 Coax ET22298

**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.

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

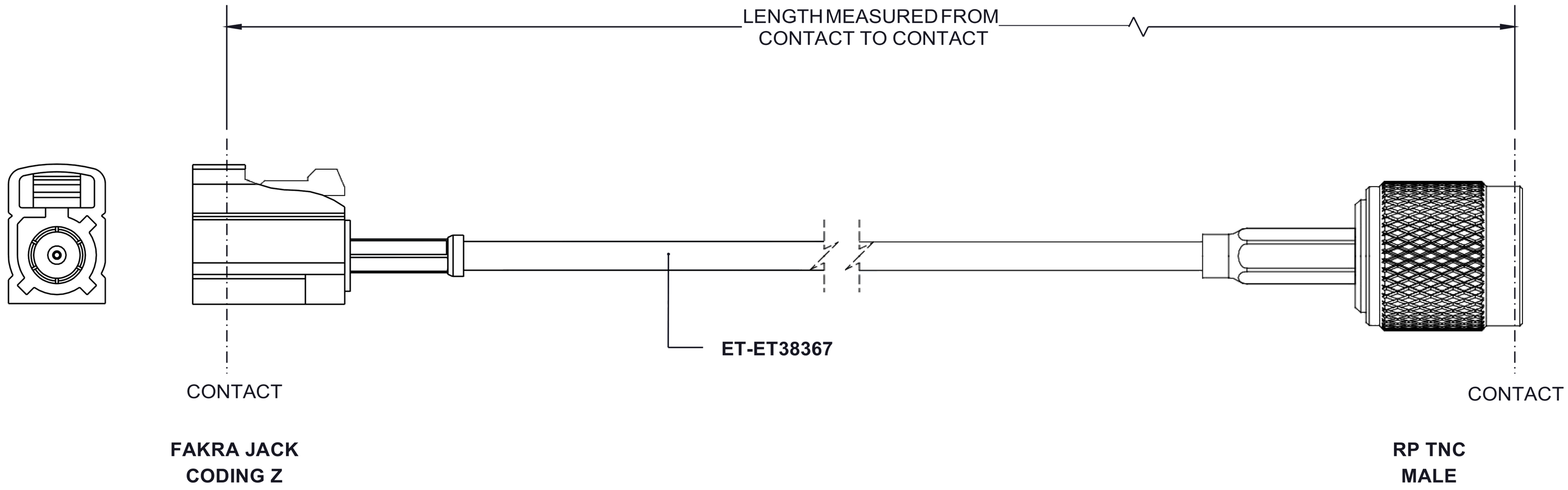
Webstie:www.ebeestock.com Email:sales@ebeestock.com

© 2022 Ebeestock Enterprises All Rights Reserved

© 2022 Ebeestock Enterprises All Rights Reserved

www.ebeestock.com

| 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
Ebeestock.com
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
e-mail: sales@Ebeestock.com

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
Ebeestock CORPORATION. ALL
RIGHTS RESERVED.

SHEET 1 OF 1

SCALE N/A

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

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.