

Water Blue FAKRA Jack to TNC Female Bulkhead Low Loss
Cable Using LMR-100 Coax with HeatShrink, LF Solder



RF Cable Assemblies Technical Data Sheet

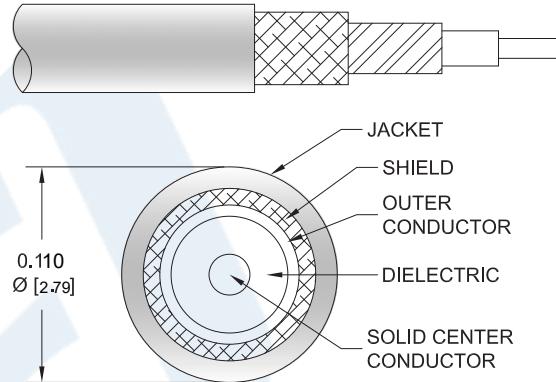
PE3W11434LF/HS

Configuration

- Connector 1: FAKRA Jack
- Connector 2: TNC Female Bulkhead
- Cable Type: LMR-100A

Features

- Max Frequency 1 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W11434LF/HS water blue FAKRA jack to TNC female bulkhead cable using LMR-100 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack FAKRA to TNC cable assembly has a jack to female gender configuration with 50 ohm flexible LMR-100A coax. The PE3W11434LF/HS FAKRA jack to TNC female cable assembly operates to 1 GHz. Our RF cable assembly with TNC 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 Pasternack 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 TNC Female Bulkhead Low Loss Cable Using LMR-100 Coax with HeatShrink, LF Solder PE3W11434LF/HS](#)

Water Blue FAKRA Jack to TNC Female Bulkhead Low Loss Cable Using LMR-100 Coax with HeatShrink, LF Solder



RF Cable Assemblies Technical Data Sheet

PE3W11434LF/HS

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
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	50	100	250	500	1,000	MHz
Insertion Loss (Typ.)	0.051	0.07	0.115	0.165	0.24	dB/ft
	0.17	0.23	0.38	0.54	0.79	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.062 lbs [28.12 g]

Cable

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

One Time Minimum Bend Radius 0.25 in [6.35 mm]

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 TNC Female Bulkhead Low Loss Cable Using LMR-100 Coax with HeatShrink, LF Solder PE3W11434LF/HS](#)



Water Blue FAKRA Jack to TNC Female Bulkhead Low Loss
Cable Using LMR-100 Coax with HeatShrink, LF Solder

RF Cable Assemblies Technical Data Sheet

PE3W11434LF/HS

Repeated Minimum Bend Radius
Bending Moment
Flat Plate Crush
Tensile Strength

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

Description	Connector 1	Connector 2
Type	FAKRA Jack	TNC Female Bulkhead
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Phosphor Bronze, Gold	Brass, Gold
Contact Plating Specification		30 μ in minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Nickel	
Body Material and Plating	Plastic	Brass, Nickel
Body Plating Specification		100 μ in minimum

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 TNC Female Bulkhead Low Loss Cable Using LMR-100 Coax with HeatShrink, LF Solder PE3W11434LF/HS](#)

Water Blue FAKRA Jack to TNC Female Bulkhead Low Loss
Cable Using LMR-100 Coax with HeatShrink, LF Solder



RF Cable Assemblies Technical Data Sheet

PE3W11434LF/HS

How to Order

Part Number Configuration:

PE3W11434LF/HS - xx

uu

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length
Base Number

Example: PE3W11434LF/HS-12 = 12 inches long cable
PE3W11434LF/HS-100cm = 100 cm long cable

Water Blue FAKRA Jack to TNC Female Bulkhead Low Loss Cable Using LMR-100 Coax with HeatShrink, LF Solder from Pasternack 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.

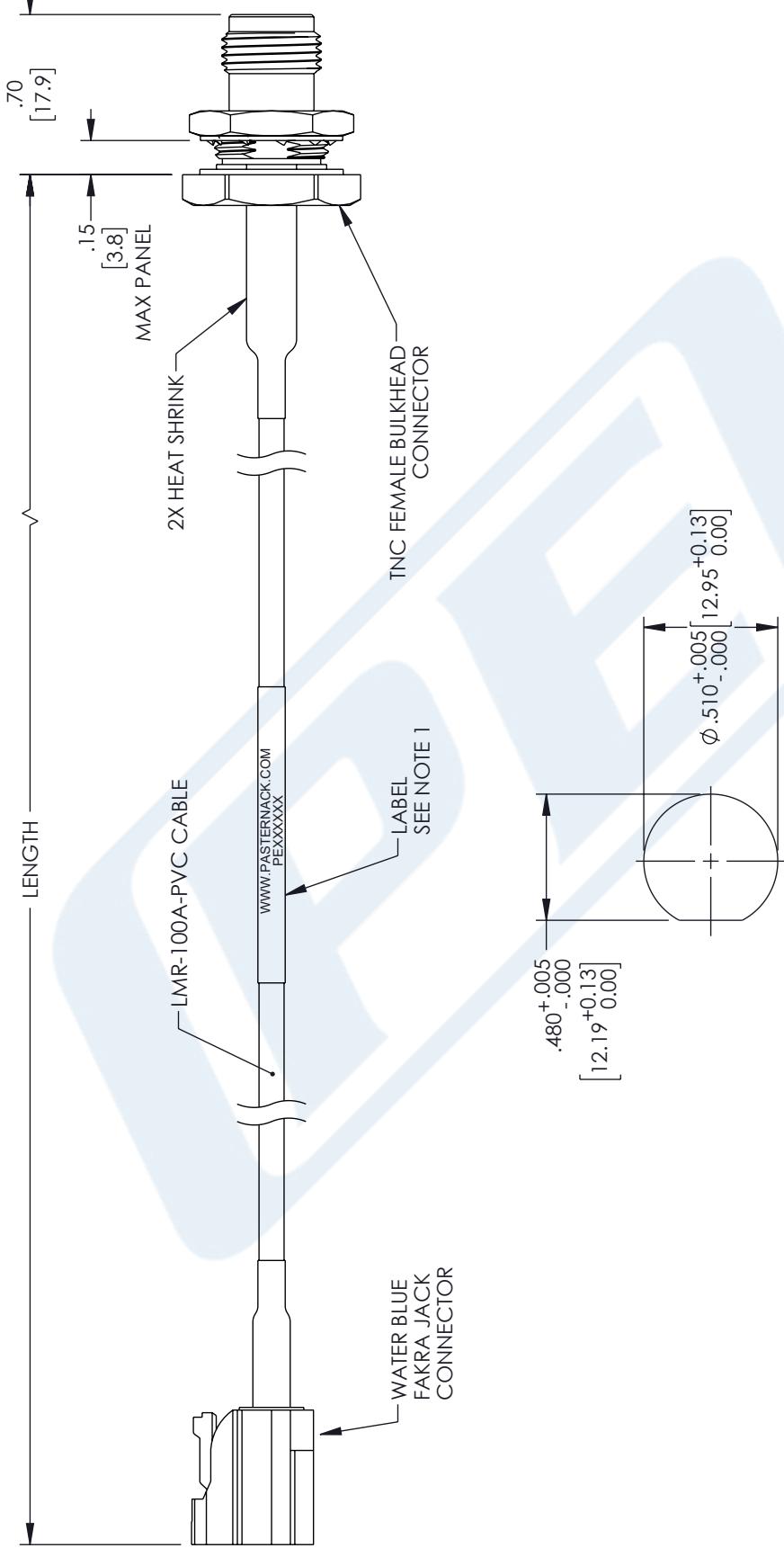
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Water Blue FAKRA Jack to TNC Female Bulkhead Low Loss Cable Using LMR-100 Coax with HeatShrink, LF Solder PE3W11434LF/HS](#)

URL: <https://www.pasternack.com/fakra-jack-to-tnc-female-bulkhead-low-loss-cable-using-lmr-100-with-heatshrink-lf-solder-pe3w11434lf-hs-p.aspx>

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. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE3W11434LF/HS CAD Drawing

Water Blue FAKRA Jack to TNC Female Bulkhead Low Loss Cable Using LMR-100 Coax with HeatShrink, LF Solder



NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT:
36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED.
LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES
FROM EACH CONNECTOR.

2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

 PASTERNACK an INFINITI® brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
  		SCALE	1 OF 1
UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES: $X = \pm 0.2 [5]$ FRACTIONS $.XXX = \pm 0.02 [1.3]$ $\pm 1/32$ $.XXX = \pm 0.005 [1.3]$ ANGLES $\pm 1^\circ$ CABLE LENGTH TOLERANCES: $>12 [305] \pm 1 [25] / -0$ $>12 [305] \pm 60 [1524] \pm 42 [51] / -0$ $>60 [1524] \pm 120 [3048] \pm 94 [102] / -0$ $>120 [3048] \pm 300 [7620] \pm 46 [132] / -0$ $>300 [7620] \pm 45^\circ / -0$		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
DESCRIPTION	WEBSITE: www.Pasternack.com PHONE: 1.866.727.8376 1.949.261.1920	ITEM NO.	REV
WATER BLUE FAKRA JACK TO TNC FEMALE BULKHEAD LOW LOSS CABLE USING LMR-100 COAX WITH HEATSHRINK, LF SOLDER		PE3W/1434LF-HS	A
SIZE	CAGE CODE	DRAWN BY	
A	53919	DZINN	