

Fire Rated TNC Male Right Angle to Water Blue FAKRA Jack Low Loss Cable Using LMR-100-FR Coax with HeatShrink in 12 Inch



RF Cable Assemblies Technical Data Sheet

PE3W13414/HS-12

Configuration

· Connector 1: TNC Male Right Angle

· Connector 2: FAKRA Jack

· Cable Type: LMR-100A-FR

Features

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

Applications

General Purpose

Laboratory Use

Description

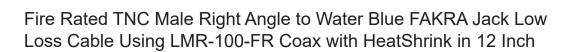
Pasternack's PE3W13414/HS-12 TNC male right angle to water blue FAKRA jack cable using LMR-100-FR coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack TNC to FAKRA cable assembly has a male to jack gender configuration with 50 ohm flexible LMR-100A-FR coax. The PE3W13414/HS-12 TNC male to FAKRA jack cable assembly operates to 4 GHz. The right angle TNC interface on the LMR-100A-FR cable allows for easier connections in tight spaces. 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: Fire Rated TNC Male Right Angle to Water Blue FAKRA Jack Low Loss Cable Using LMR-100-FR Coax with HeatShrink in 12 Inch PE3W13414/HS-12

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451







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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR		h disk	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]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		9.5 [31.17]	3	Ω/1000ft [Ω/Km]
Jacket Spark			2,000	Vrms

Specifications by Frequency

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Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	4	GHz
Insertion Loss (Typ.)	0.37	0.42	0.47	0.54	0.81	dB/ft
	1.21	1.38	1.54	1.77	2.66	dB/m

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB for the FAKRA connector and 0.2 dB for the TNC connector.

Mechanical Specifications

Cable Assembly

Length* 12 in [304.8 mm] Weight 0.056 lbs [25.4 g]

Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields
Shield Layer 1

LMR-100A-FR
50 Ohms
Copper
Copper
PE
Aluminum Tape

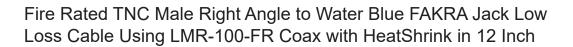
Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper

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Jacket MaterialFRPE, BlackJacket Diameter0.11 in [2.79 mm]

One Time Minimum Bend Radius0.25 in [6.35 mm]Repeated Minimum Bend Radius1 in [25.4 mm]Bending Moment0.1 lbs-ft [0.14 N-m]Flat Plate Crush10 lbs/in [0.18 Kg/mm]Tensile Strength15 lbs [6.8 Kg]

Connectors

Connector 2 FAKRA Jack					
		50 Ohms			
Straight					
Phosphor Bronze, Gold					
PTFE					
Brass, Nickel					
Plastic					

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

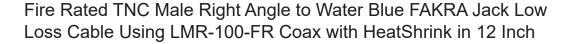
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How to Order

Part Number Configuration:

PE3W13414/HS - xx uu

Unit of Measure:
cm = Centimeters

Length
Base Number

Example: PE3W13414/HS-12 = 12 inches long cable PE3W13414/HS-100cm = 100 cm long cable

Fire Rated TNC Male Right Angle to Water Blue FAKRA Jack Low Loss Cable Using LMR-100-FR Coax with HeatShrink in 12 Inch 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.

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URL: https://www.pasternack.com/fire-rated-tnc-male-right-angle-to-jack-cable-using-lmr-100-fr-with-heatshrink-pe3w13414-hs-12-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.

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PE3W13414/HS-12 CAD Drawing

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