

# Water Blue FAKRA Jack to BNC Female Cable 200 cm Length Using LMR-100 Coax with HeatShrink, LF Solder



## **RF Cable Assemblies Technical Data Sheet**

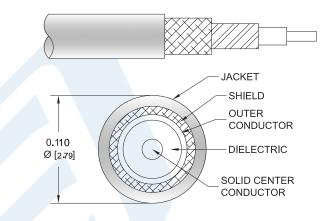
## PE3W06958LF/HS-200CM

# **Configuration**

Connector 1: FAKRA JackConnector 2: BNC FemaleCable 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 PE3W06958LF/HS-200CM water blue FAKRA jack to BNC female 200 cm 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 BNC cable assembly has a jack to female gender configuration with 50 ohm flexible LMR-100A coax. The PE3W06958LF/HS-200CM FAKRA jack to BNC female cable assembly operates to 1 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

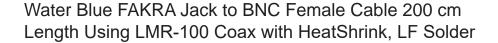
Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector 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 BNC Female Cable 200 cm Length Using LMR-100 Coax with HeatShrink, LF Solder PE3W06958LF/HS-200CM

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

Sales@Pasternack.com • Techsupport@Pasternack.com







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# PE3W06958LF/HS-200CM

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
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	50	100	250	500	1,000	MHz
Insertion Loss (Max.)	0.534	0.659	0.934	1.282	1.774	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\* 78.74 in [200 cm]
Diameter 0.453 in [11.51 mm]

#### Cable

Cable TypeLMR-100AImpedance50 OhmsInner Conductor TypeSolid

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

One Time Minimum Bend Radius

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
Туре	FAKRA Jack	BNC Female
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 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

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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<sup>\*</sup>All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.



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#### PE3W06958LF/HS-200CM

#### **How to Order**



Example: PE3W06958LF/HS-12 = 12 inches long cable PE3W06958LF/HS-100cm = 100 cm long cable

Water Blue FAKRA Jack to BNC Female Cable 200 cm Length 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.

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URL: https://www.pasternack.com/fakra-jack-bnc-female-lmr100-cable-assembly-pe3w06958lf-hs-200cm-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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**PE3W06958LF/HS-200CM CAD Drawing**Water Blue FAKRA Jack to BNC Female Cable 200 cm Length Using LMR-100 Coax with HeatShrink, LF Solder

