



Water Blue FAKRA Jack to BNC Female Cable 50 cm  
Length Using LMR-100 Coax with HeatShrink, LF Solder

RF Cable Assemblies Technical Data Sheet

PE3W06958LF/HS-50CM

### Configuration

- Connector 1: FAKRA Jack
- Connector 2: BNC Female
- 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 PE3W06958LF/HS-50CM water blue FAKRA jack to BNC female 50 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-50CM 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 50 cm Length Using LMR-100 Coax with Heat-Shrink, LF Solder PE3W06958LF/HS-50CM](#)



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### 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 Km]		81 [265.75]		Ohms/1000ft [Ohms/
DC Resistance Outer Conductor Km]		9.5 [31.17]		Ohms/1000ft [Ohms/
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.)	0.283	0.314	0.383	0.47	0.593	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*	19.68 in [499.87 mm]
Diameter	0.453 in [11.51 mm]

#### 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

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 50 cm Length Using LMR-100 Coax with Heat-Shrink, LF Solder PE3W06958LF/HS-50CM](#)



## Water Blue FAKRA Jack to BNC Female Cable 50 cm Length Using LMR-100 Coax with HeatShrink, LF Solder

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PE3W06958LF/HS-50CM

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	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:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , 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 BNC Female Cable 50 cm Length Using LMR-100 Coax with Heat-Shrink, LF Solder PE3W06958LF/HS-50CM](#)



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PE3W06958LF/HS-50CM

### How to Order

Part Number Configuration:

**PE3W06958LF/HS - xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

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

Water Blue FAKRA Jack to BNC Female Cable 50 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.

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 50 cm Length Using LMR-100 Coax with HeatShrink, LF Solder PE3W06958LF/HS-50CM](https://www.pasternack.com/fakra-jack-bnc-female-lmr100-cable-assembly-pe3w06958lf-hs-50cm-p.aspx)

URL: <https://www.pasternack.com/fakra-jack-bnc-female-lmr100-cable-assembly-pe3w06958lf-hs-50cm-p.aspx>

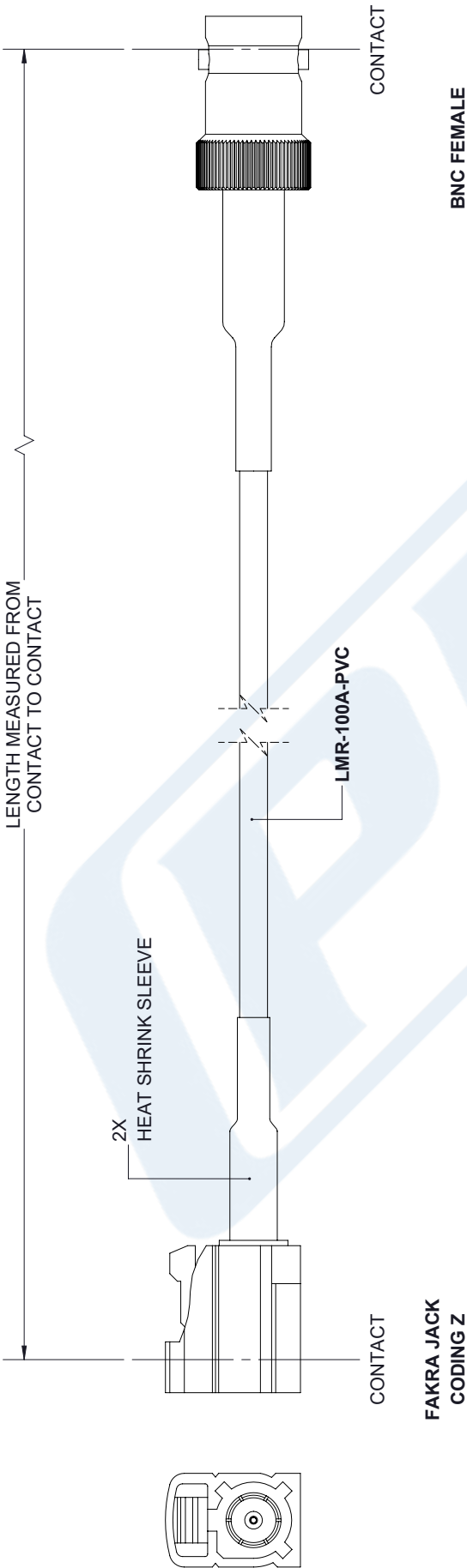
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PE3W06958LF/HS-50CM CAD Drawing

Water Blue FAKRA Jack to BNC Female Cable 50 cm Length

Using LMR-100 Coax with HeatShrink, LF Solder

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



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
X±.2 [5.08]	±.132
.XX±.01 [.25]	±.132
.XXX±.005 [.13]	ANGLES ± 1°
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
THIRD-ANGLE PROJECTION	

<b>PE PASTERNAK</b> an INFINITO brand	
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SIZE	PART NUMBER
A	PE3W06958LF/HS
CAGE	DRAWN BY
53919	K.DANG
REV	REV
	A

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SCALE	N/A

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