

SMA Male to Water Blue FAKRA Jack Cable  
Using RG316-DS Coax , LF Solder



RF Cable Assemblies Technical Data Sheet

PE3C3493LF

**Configuration**

- Connector 1: SMA Male
- Connector 2: FAKRA Jack
- Cable Type: RG316-DS

**Features**

- Max Frequency 3 GHz
- Shielding Effectivity > 85 dB
- 69.5% Phase Velocity
- Double Shielded
- FEP Jacket

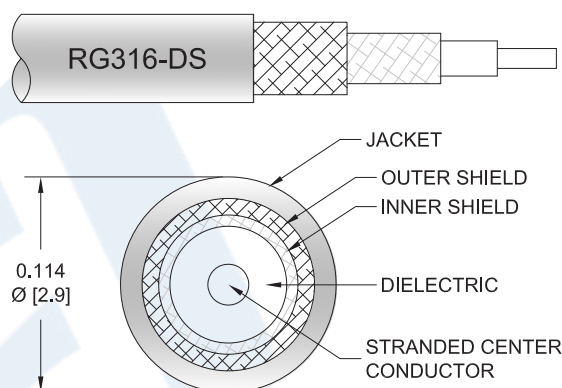
**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3C3493LF SMA male to water blue FAKRA jack cable using RG316-DS 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 SMA to FAKRA cable assembly has a male to jack gender configuration with 50 ohm flexible RG316-DS coax. The PE3C3493LF SMA male to FAKRA jack cable assembly operates to 3 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 85 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: [SMA Male to Water Blue FAKRA Jack Cable Using RG316-DS Coax , LF Solder PE3C3493LF](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
RF Shielding	85			dB
Capacitance		28.96 [95.01]		pF/ft [pF/m]
DC Resistance Inner Conductor		83.82 [275]		$\Omega$ /1000ft [ $\Omega$ /Km]
DC Resistance Outer Conductor		5.33 [17.49]		$\Omega$ /1000ft [ $\Omega$ /Km]

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.12	0.14	0.17	0.3	0.52	dB/ft
	0.39	0.46	0.56	0.98	1.71	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

Diameter 0.37 in [9.4 mm]

##### Cable

Cable Type RG316-DS  
 Impedance 50 Ohms  
 Inner Conductor Type Stranded  
 Inner Conductor Material and Plating Copper Clad Steel, Silver  
 Dielectric Type PTFE  
 Number of Shields 2  
 Shield Layer 1 Silver Plated Copper Braid  
 Shield Layer 2 Silver Plated Copper Braid  
 Jacket Material FEP, Tan  
 Jacket Diameter 0.114 in [2.9 mm]

One Time Minimum Bend Radius 0.59 in [14.99 mm]  
 Repeated Minimum Bend Radius 1.57 in [39.88 mm]

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**Connectors**

Description	Connector 1	Connector 2
Type	SMA Male	FAKRA Jack
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Phosphor Bronze, Gold
Contact Plating Specification	30 µin minimum	
Dielectric Type	PTFE	Teflon
Outer Conductor Material and Plating		Brass, Nickel
Body Material and Plating	Brass, Nickel	Plastic, Paint
Body Plating Specification	100 µin minimum	
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum	
Hex Size	5/16 inch	
Torque	3 in-lbs [0.34 Nm]	

**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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## SMA Male to Water Blue FAKRA Jack Cable Using RG316-DS Coax , LF Solder

### RF Cable Assemblies Technical Data Sheet

PE3C3493LF

#### How to Order

Part Number Configuration:

**PE3C3493LF**

- **xx**

**uu**

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

Example: PE3C3493LF-12 = 12 inches long cable  
PE3C3493LF-100cm = 100 cm long cable

SMA Male to Water Blue FAKRA Jack Cable Using RG316-DS Coax , 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: [SMA Male to Water Blue FAKRA Jack Cable Using RG316-DS Coax , LF Solder PE3C3493LF](#)

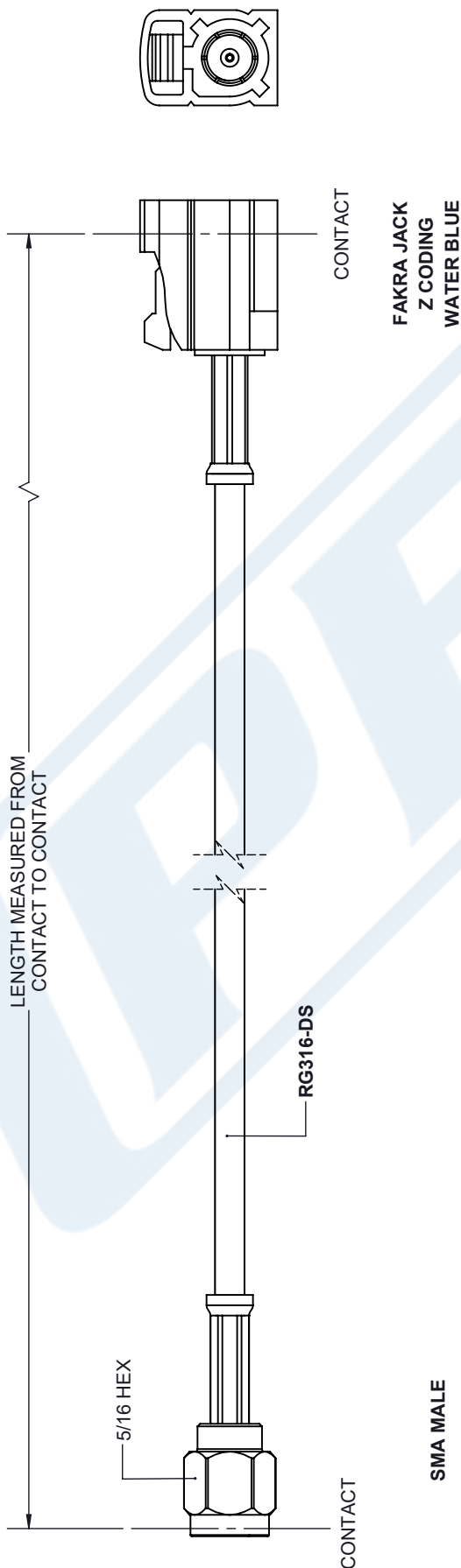
URL: <https://www.pasternack.com/sma-male-fakra-jack-rg316-ds-cable-assembly-pe3c3493lf-p.aspx>

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.

# PE3C3493LF CAD Drawing

SMA Male to Water Blue FAKRA Jack Cable Using RG316-DS Coax , LF Solder

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/24/2020	S. ELLIS



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
.X = ± .2	[.508]
.XX = ± .02	[.51]
.XXX = ± .005	[.13]
ANGLES ± 1°	
CABLE LENGTH (L) TOLERANCES:	
L ≤ 12 [305] = +1 [25] / -0	
12 [305] < L ≤ 60 [1524] = +2 [51] / -0	
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0	
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0	
300 [7620] < L = +5% / -0	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	

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SIZE	CAGE CODE
A	53919
DRAWN BY	ITEM NO.
K.DANG	PE3C3493LF
REV	A

THIRD-ANGLE PROJECTION	
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SHEET	1 OF 1
SCALE	N/A

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