



TECHNICAL DATA SHEET

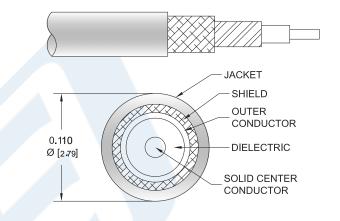
PE3C3045

Configuration

Connector 1: SMA Female
Connector 2: FAKRA Jack
Cable Type: LMR-100A
Coax Flex Type: Flexible

Features

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



Applications

General Purpose

Laboratory Use

Description

Pasternack's PE3C3045 SMA female to water blue FAKRA jack 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 SMA to FAKRA cable assembly has a female to jack gender configuration with 50 ohm flexible LMR-100A coax. The PE3C3045 SMA female to FAKRA jack cable assembly operates to 4 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: SMA Female to Water Blue FAKRA Jack Low Loss Cable Using LMR-100 Coax PE3C3045

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		750	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]	100	Ω/1000ft [Ω/Km]
Jacket Spark			2,000	Vrms

Specifications by Frequency

Part Number	Longth	Description	F1	F2	F3	F4	F5	Units	Maight (lbs)
Part Number	Length	Frequency	100	250	500	1000	4000	MHz	Weight (lbs)
PE3C3045	Custom Lengths	Insertion Loss (Typ.)	0.06	0.12	0.17	0.24	0.5	dB/ft	
F E3C3043	Available	ilisei tioli Loss (Typ.)	0.21	0.38	0.55	0.79	1.65	dB/m	
PE3C3045-24	24 inch	Insertion Loss (Typ.)	0.33	0.43	0.53	0.68	1.21	dB	0.032
PE3C3045-36	36 inch	Insertion Loss (Typ.)	0.4	0.55	0.7	0.92	1.71	dB	0.041
PE3C3045-48	48 inch	Insertion Loss (Typ.)	0.46	0.66	0.86	1.16	2.21	dB	0.05
PE3C3045-100CM	100 cm	Insertion Loss (Typ.)	0.41	0.58	0.75	0.99	1.85	dB	0.044
PE3C3045-200CM	200 cm	Insertion Loss (Typ.)	0.62	0.96	1.29	1.78	3.5	dB	0.074

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:

O.1 dB

Loss due to Connector 2:

Base Weight:

Additional Weight per Inch:

0.1 dB

0.023 pounds

0.00075 pounds

Mechanical Specifications

Cable Assembly

Weight 0.023 lbs [10.43 g]

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Cable

Cable Type Impedance

Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type Number of Shields

Shield Layer 1

Shield Layer 2

Jacket Material

Jacket Diameter

One Time Minimum Bend Radius

Repeated Minimum Bend Radius

Bending Moment

Flat Plate Crush

Tensile Strength

LMR-100A 50 Ohms

Solid

Copper Clad Steel PE

2

Aluminum Tape

Tinned Copper Braid

PVC, Black

0.11 in [2.79 mm]

0.25 in [6.35 mm] 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		
Туре	SMA Female Threaded	FAKRA Jack Push-On		
Specification	MIL-STD-348			
Impedance	50 Ohms	50 Ohms		
Configuration	Straight	Straight		
Mating Cycles	100			
Contact Material and Plating	Beryllium Copper, Gold	Phosphor Bronze, Gold		
Dielectric Type	PTFE	PTFE		
Outer Conductor Material and Plating	Brass, Nickel	Brass, Nickel		
Body Material and Plating	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

Notes:

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How to Order



Example: PE3C3045-12 = 12 inches long cable PE3C3045-100cm = 100 cm long cable

and are part of the broadest selection in the industry.

SMA Female to Water Blue FAKRA Jack Low Loss Cable Using LMR-100 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability

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URL: https://www.pasternack.com/sma-female-to-fakra-jack-low-loss-cable-using-lmr-100-pe3c3045-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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PE3C3045 CAD Drawing

