

SMA Male Right Angle to Black FAKRA Jack Cable Using RG316 Coax

PE3C0537

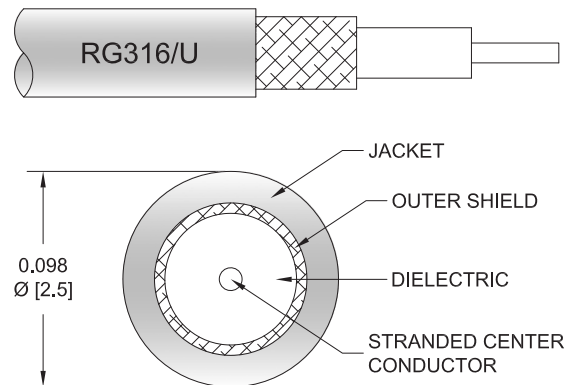


Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: FAKRA Jack
- Cable Type: RG316
- Coax Flex Type: Flexible

Features

- Max Frequency 3 GHz
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C0537 SMA male right angle to black FAKRA jack cable using RG316 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 coax. The PE3C0537 SMA male to FAKRA jack cable assembly operates to 3 GHz. The right angle SMA interface on the RG316 cable allows for easier connections in tight spaces.

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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Capacitance		32 [104.99]		pF/ft [pF/m]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	500	1000	3000	MHz	
PE3C0537	Custom Lengths Available	Insertion Loss (Typ.)	0.11	0.16	0.24	0.38	0.58	dB/ft	
			0.37	0.53	0.79	1.25	1.91	dB/m	
PE3C0537-12	12 inch	Insertion Loss (Typ.)	0.41	0.46	0.54	0.68	0.88	dB	0.034
PE3C0537-24	24 inch	Insertion Loss (Typ.)	0.52	0.62	0.78	1.06	1.46	dB	0.045
PE3C0537-36	36 inch	Insertion Loss (Typ.)	0.63	0.78	1.02	1.44	2.04	dB	0.055
PE3C0537-48	48 inch	Insertion Loss (Typ.)	0.74	0.94	1.26	1.82	2.62	dB	0.065
PE3C0537-72	72 inch	Insertion Loss (Typ.)	0.96	1.26	1.73	2.58	3.78	dB	0.085

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:	0.2 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.034 pounds
Additional Weight per Inch:	0.00084 pounds

Mechanical Specifications

Cable Assembly

Weight	0.034 lbs [15.42 g]
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Cable

Cable Type	RG316
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.098 in [2.49 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	FAKRA Jack
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Color		BK
Contact Material and Plating	Brass, Gold	Phosphor Bronze, Gold
Contact Plating Specification	50 µin minimum	
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Brass, Nickel
Body Material and Plating	Brass, Nickel	Plastic
Body Plating Specification	100 µin minimum	
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum	
Hex Size	5/16 in	
Torque	5 in-lbs 0.57 Nm	

Environmental Specifications

Operating Range Temperature -40 to +85 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:
Values at 25°C, sea level.

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PE3C0537

Typical Performance Data

How to Order

Part Number Configuration:

PE3C0537

- xx

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Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: PE3C0537-12 = 12 inches long cable
PE3C0537-100cm = 100 cm long cable

SMA Male Right Angle to Black FAKRA Jack Cable Using RG316 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 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 Right Angle to Black FAKRA Jack Cable Using RG316 Coax PE3C0537](#)

URL: <https://www.pasternack.com/sma-male-right-angle-to-fakra-jack-cable-using-rg316-pe3c0537-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3C0537 CAD Drawing
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