

UHF Male to UHF Male Cable Using RG8 Coax



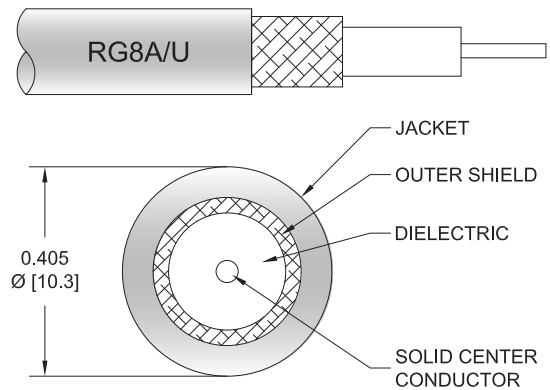
PE3C4731

Configuration

- Connector 1: UHF Male
- Connector 2: UHF Male
- Cable Type: RG8
- Coax Flex Type: Flexible

Features

- Max Frequency 300 MHz
- 66% Phase Velocity
- PVC (NC) Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C4731 UHF male to UHF male cable using RG8 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 UHF to UHF cable assembly has a male to male gender configuration with 50 ohm flexible RG8 coax. The PE3C4731 UHF male to UHF male cable assembly operates to 300 MHz.

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		300	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	50	100	250	300	MHz	
PE3C4731	Custom Lengths Available	Insertion Loss (Typ.)	0.013	0.017	0.029	0.033	dB/ft	
			0.05	0.06	0.1	0.11	dB/m	
PE3C4731-12	12 In	Insertion Loss (Typ.)	0.22	0.22	0.23	0.24	dB	0.252
PE3C4731-24	24 In	Insertion Loss (Typ.)	0.23	0.24	0.26	0.27	dB	0.353
PE3C4731-36	36 In	Insertion Loss (Typ.)	0.24	0.26	0.29	0.3	dB	0.453
PE3C4731-48	48 In	Insertion Loss (Typ.)	0.26	0.27	0.32	0.34	dB	0.553
PE3C4731-72	72 In	Insertion Loss (Typ.)	0.28	0.31	0.38	0.4	dB	0.753

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:	0.1 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.252 pounds
Additional Weight per Inch:	0.00834 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.252 lbs [114.31 g]

Cable

Cable Type	RG8
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper
Dielectric Type	PE
Number of Shields	1
Shield Layer 1	Copper Braid
Jacket Material	PVC (NC), Black
Jacket Diameter	0.405 in [10.29 mm]

Connectors

Description	Connector 1	Connector 2
Type	UHF Male	UHF Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel

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Environmental Specifications

Operating Range Temperature

-40 to +80 deg C

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

Plotted and Other Data

Notes:

Typical Performance Data

How to Order

Part Number Configuration:

PE3C4731

- xx

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C4731-12 = 12 inches long cable
PE3C4731-100cm = 100 cm long cable

UHF Male to UHF Male Cable Using RG8 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: [UHF Male to UHF Male Cable Using RG8 Coax PE3C4731](#)

URL: <https://www.pasternack.com/uhf-male-to-uhf-male-cable-using-rg8-pe3c4731-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.

PE3C4731 CAD Drawing
UHF Male to UHF Male Cable Using RG8 Coax

