

75 Ohm MCX Plug to 75 Ohm F Male Cable Using 75 Ohm RG187 Coax



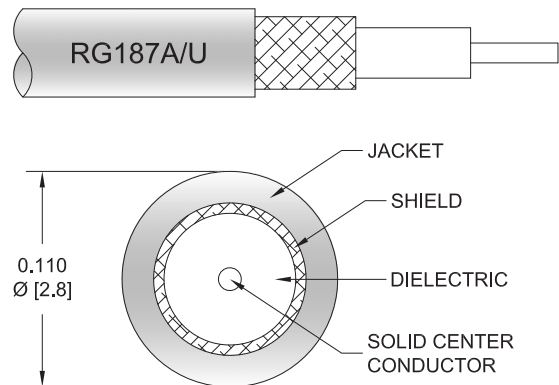
PE3W11731

Configuration

- Connector 1: MCX Plug
- Connector 2: F Male
- Cable Type: RG187
- Coax Flex Type: Flexible

Features

- Max Frequency 1 GHz
- 70% Phase Velocity
- PTFE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W11731 75 ohm MCX plug to 75 ohm type F male cable using 75 ohm RG187 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 MCX to type F cable assembly has a plug to male gender configuration with 75 ohm flexible RG187 coax. The PE3W11731 MCX plug to type F male cable assembly operates to 1 GHz.

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		1	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		19.5 [63.98]		pF/ft [pF/m]
DC Resistance Inner Conductor		245 [803.81]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			250	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	50	100	250	500	1000	MHz	
PE3W11731	Custom Lengths Available	Insertion Loss (Typ.)	0.03	0.05	0.13	0.26	0.525	dB/ft	
			0.09	0.18	0.43	0.86	1.73	dB/m	
PE3W11731-12	12 inch	Insertion Loss (Typ.)	0.23	0.26	0.34	0.47	0.73	dB	0.029
PE3W11731-24	24 inch	Insertion Loss (Typ.)	0.26	0.31	0.47	0.73	1.25	dB	0.04
PE3W11731-36	36 inch	Insertion Loss (Typ.)	0.28	0.36	0.6	0.99	1.78	dB	0.05
PE3W11731-48	48 inch	Insertion Loss (Typ.)	0.31	0.41	0.73	1.25	2.3	dB	0.06
PE3W11731-60	60 inch	Insertion Loss (Typ.)	0.33	0.46	0.86	1.51	2.83	dB	0.07

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:	0.029 pounds
Additional Weight per Inch:	0.00084 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.029 lbs [13.15 g]

Cable

Cable Type	RG187
Impedance	75 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	PTFE, White
Jacket Diameter	0.102 in [2.59 mm]

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Connectors

Description	Connector 1	Connector 2
Type	MCX Plug	F Male
Impedance	75 Ohms	75 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Nickel
Body Plating Specification	3 µin minimum	
Coupling Nut Material and Plating		Brass, Nickel
Hex Size		16-Jul inch
Torque		12 in-lbs 1.36 Nm

Environmental Specifications

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

Plotted and Other Data

Notes:

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PE3W11731

Typical Performance Data

How to Order

Part Number Configuration: **PE3W11731 - xx uu**

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

Length

Base Number

Example: PE3W11731-12 = 12 inches long cable
PE3W11731-100cm = 100 cm long cable

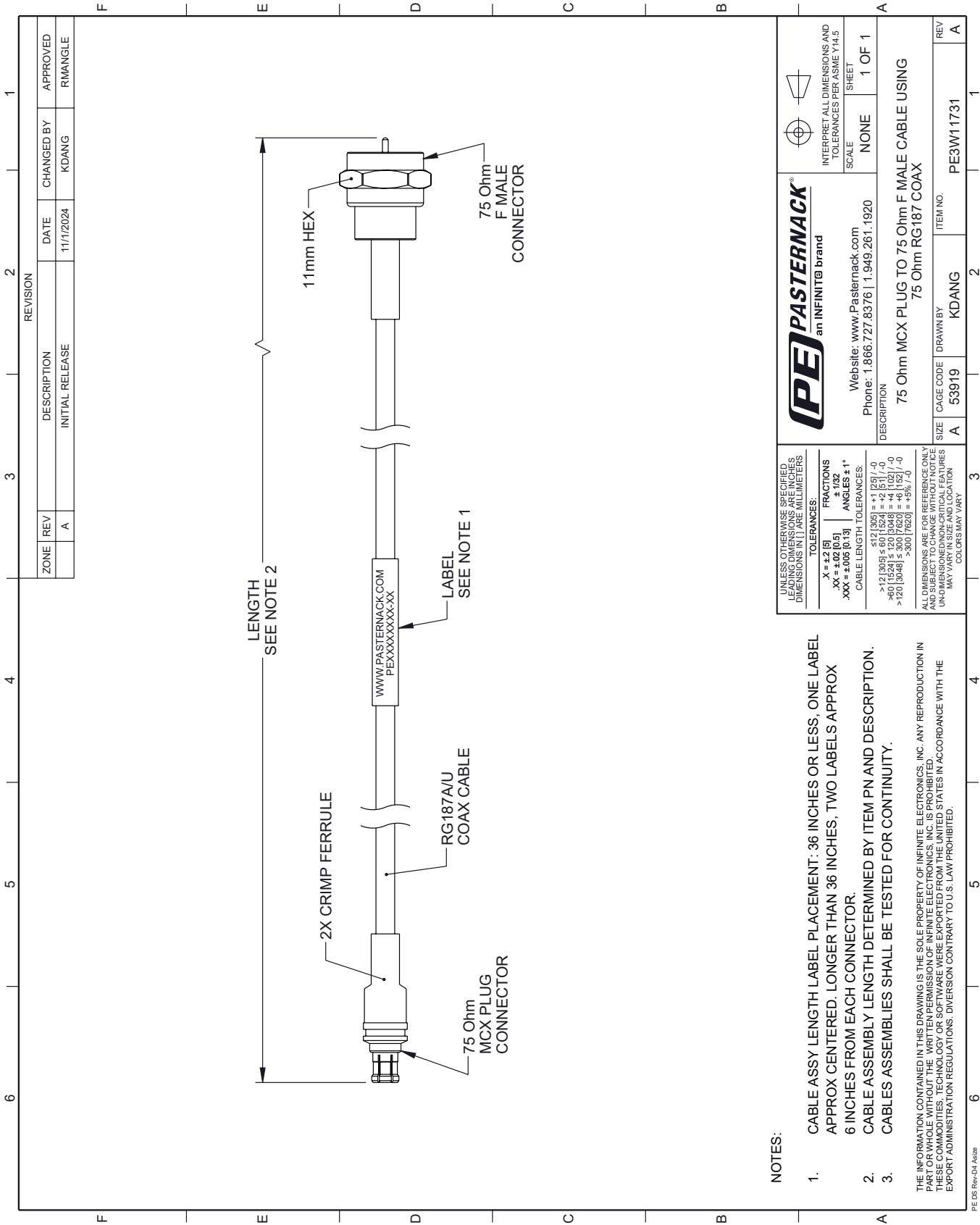
75 Ohm MCX Plug to 75 Ohm F Male Cable Using 75 Ohm RG187 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm MCX Plug to 75 Ohm F Male Cable Using 75 Ohm RG187 Coax PE3W11731](https://www.pasternack.com/75-ohm-mcx-plug-to-75-ohm-f-male-cable-using-rg187-pe3w11731-p.aspx)

URL: <https://www.pasternack.com/75-ohm-mcx-plug-to-75-ohm-f-male-cable-using-rg187-pe3w11731-p.aspx>

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PE3W11731 CAD Drawing
75 Ohm MCX Plug to 75 Ohm F Male Cable Using 75 Ohm RG187 Coax



NOTES:

- 1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
- 2. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
- 3. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:	FRACTIONS
.X = ±.2 [5]	± 1/32
.XX = ±.02 [0.5]	± 1/64
.XXX = ±.005 [0.13]	ANGLES ± 1°

CABLE LENGTH TOLERANCES:

≤ 12 [305]	± .12 [3.05]
> 12 [305] ≤ 60 [1524]	± .12 [3.05]
> 60 [1524] ≤ 120 [3048]	± .12 [3.05]
> 120 [3048] ≤ 300 [7620]	± .12 [3.05]
> 300 [7620]	± .12 [3.05]

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, DIMENSIONS IN [] ARE MILLIMETERS. COLORS MAY VARY.

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PE DS Rev-Q4 Asize

PE3W11731 an INFINITE brand

Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE

SHEET: 1 OF 1

DESCRIPTION: 75 Ohm MCX PLUG TO 75 Ohm F MALE CABLE USING 75 Ohm RG187 COAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	KDANG	PE3W11731	A