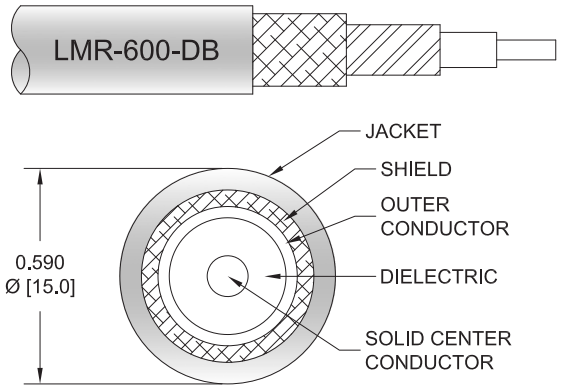
UHF Male to UHF Male Low Loss Cable Using LMR-600-DB Coax with Times Microwave Components

PE3C3111

Configuration

- Connector 1: UHF Male
- Connector 2: UHF Male
- Cable Type: LMR-600-DB
- Coax Flex Type: Flexible



Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 87% Phase Velocity
- Double Shielded
- PE Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C3111 UHF male to UHF male cable using LMR-600-DB 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 LMR-600-DB coax. The PE3C3111 UHF male to UHF male cable assembly operates to 3 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		87		%
RF Shielding	90			dB
Group Delay		1.17 [3.84]		ns/ft [ns/m]
Capacitance		23.4 [76.77]		pF/ft [pF/m]
Inductance		0.058 [0.19]		uH/ft [uH/m]
DC Resistance Inner Conductor		0.53 [1.74]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.2 [3.94]		Ohms/1000ft [Ohms/Km]

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			8,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	500	1000	3000	MHz	
PE3C3111	Custom Lengths Available	Insertion Loss (Typ.)	0.007	0.126	0.017	0.026	0.048	dB/ft	
			0.03	0.42	0.06	0.09	0.16	dB/m	
PE3C3111-12	12 Inch	Insertion Loss (Typ.)	0.35	0.47	0.36	0.37	0.39	dB	0.16
PE3C3111-36	36 Inch	Insertion Loss (Typ.)	0.37	0.72	0.4	0.42	0.49	dB	0.432
PE3C3111-48	48 Inch	Insertion Loss (Typ.)	0.37	0.85	0.41	0.45	0.54	dB	0.568
PE3C3111-180	180 Inch	Insertion Loss (Typ.)	0.45	2.23	0.6	0.73	1.06	dB	2.064
PE3C3111-240	240 Inch	Insertion Loss (Typ.)	0.48	2.86	0.68	0.86	1.3	dB	2.743

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:	0.17	dB
Loss due to Connector 2:	0.17	dB
Base Weight:	0.16	pounds
Additional Weight per Inch:	0.2875	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.31 lbs [140.61 g]

Cable

Cable Type	LMR-600-DB
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Aluminum
Dielectric Type	PE (F)
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
Jacket Material	PE, Black
Jacket Diameter	0.59 in [14.99 mm]
One Time Minimum Bend Radius	1.5 in [38.1 mm]
Repeated Minimum Bend Radius	6 in [152.4 mm]
Bending Moment	2.75 lbs-ft [3.73 N-m]
Flat Plate Crush	60 lbs/in [1.07 Kg/mm]
Tensile Strength	350 lbs [158.76 Kg]

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Connectors

Description	Connector 1	Connector 2
Type	UHF Male	UHF Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Phosphor Bronze, Silver	Phosphor Bronze, Silver
Contact Plating Specification	200 µin minimum	200 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tin/Nickel	Brass, Tin/Nickel
Body Plating Specification	100 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Tin/Nickel	Brass, Tin/Nickel
Coupling Nut Plating Specification	100 µin minimum	100 µin minimum

Environmental Specifications

Operating Range Temperature	-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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Typical Performance Data

How to Order

Part Number Configuration: **PE3C3111 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3C3111 — Base Number

Example: PE3C3111-12 = 12 inches long cable
PE3C3111-100cm = 100 cm long cable

UHF Male to UHF Male Low Loss Cable Using LMR-600-DB Coax with Times Microwave Components 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 Low Loss Cable Using LMR-600-DB Coax with Times Microwave Components PE3C3111

URL: https://www.pasternack.com/uhf-male-to-uhf-male-low-loss-cable-using-lmr-600-db-pe3c3111-p.aspx

PE3C3111 CAD Drawing

UHF Male to UHF Male Low Loss Cable Using LMR-600-DB Coax with Times Microwave Components