

N Female to MHV Male Cable Using 75 Ohm RG59 Coax



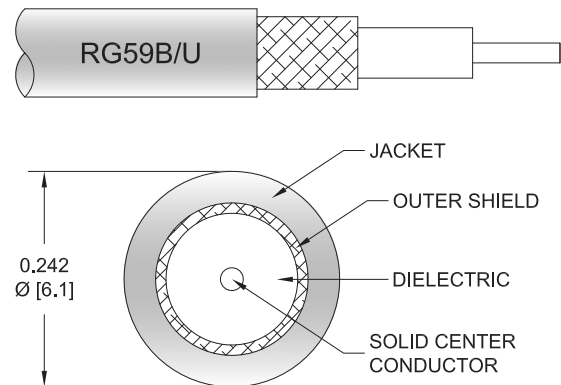
PE37668

Configuration

- Connector 1: N Female
- Connector 2: MHV Male
- Cable Type: RG59
- Coax Flex Type: Flexible

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE37668 type N female to MHV male cable using 75 ohm RG59 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 type N to MHV cable assembly has a female to male gender configuration with 75 ohm flexible RG59 coax. The PE37668 type N female to MHV 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		20.6 [67.59]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	Units	Weight (lbs)
		Frequency	100	250	300	MHz	
PE37668	Custom Lengths Available	Insertion Loss (Typ.)	0.038	0.059	0.064	dB/ft	
			0.13	0.2	0.21	dB/m	
PE37668-12	12 In	Insertion Loss (Typ.)	0.24	0.26	0.27	dB	0.145
PE37668-24	24 In	Insertion Loss (Typ.)	0.28	0.32	0.33	dB	0.181
PE37668-36	36 In	Insertion Loss (Typ.)	0.32	0.38	0.4	dB	0.217
PE37668-60	60 In	Insertion Loss (Typ.)	0.39	0.5	0.52	dB	0.289
PE37668-72	72 In	Insertion Loss (Typ.)	0.43	0.56	0.59	dB	0.325

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:	0.145 pounds
Additional Weight per Inch:	0.003 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.145 lbs [65.77 g]

Cable

Cable Type	RG59
Impedance	75 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel
Dielectric Type	PE
Number of Shields	1
Shield Layer 1	Copper Braid
Jacket Material	PVC (NC), Black
Jacket Diameter	0.242 in [6.15 mm]

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Connectors

Description	Connector 1	Connector 2
Type	N Female	MHV Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 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, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		100 µin minimum

Environmental Specifications

Operating Range Temperature -25 to +70 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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PE37668

Typical Performance Data

How to Order

Part Number Configuration:

PE37668

- xx

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

Length

Base Number

Example: PE37668-12 = 12 inches long cable
PE37668-100cm = 100 cm long cable

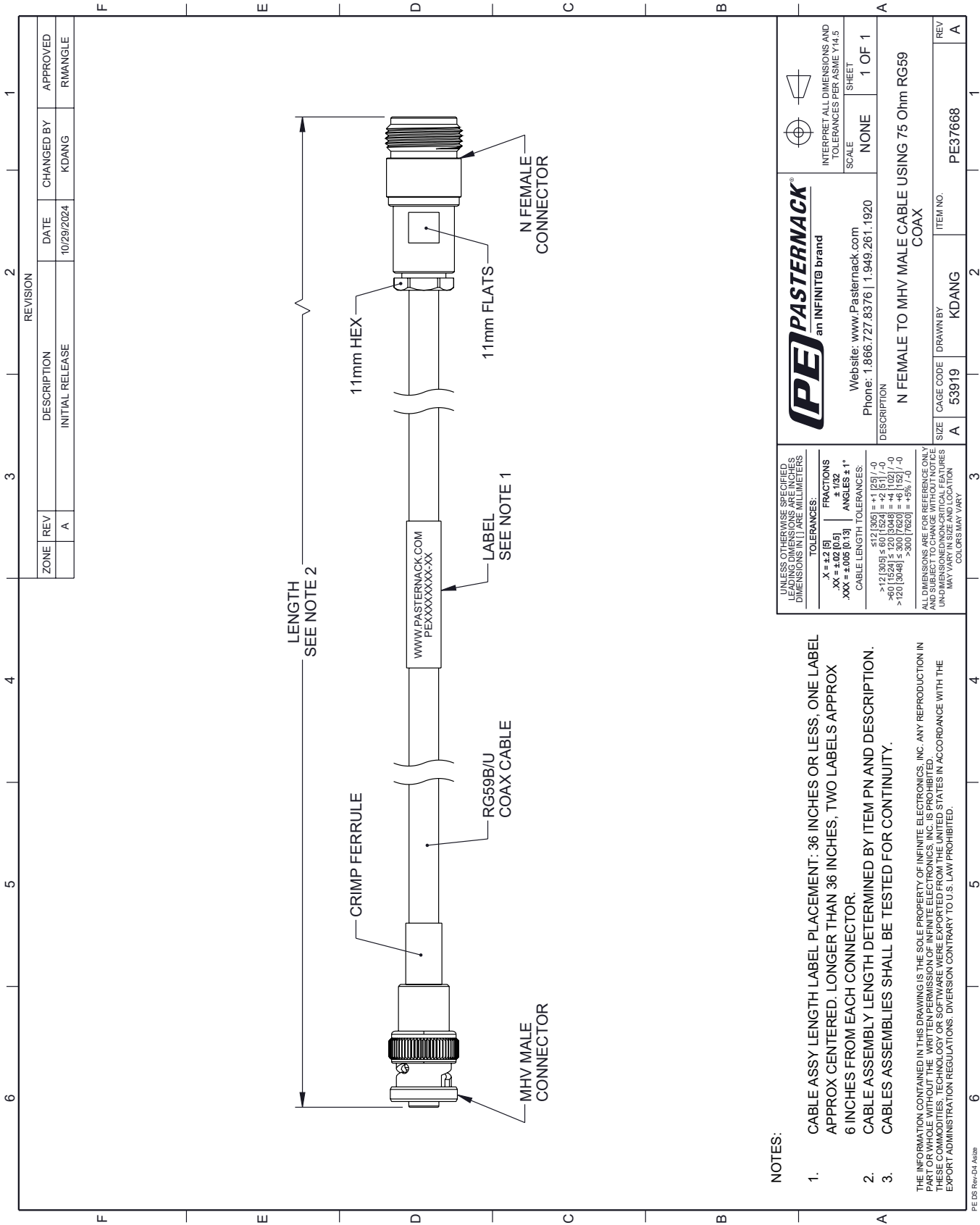
N Female to MHV Male Cable Using 75 Ohm RG59 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female to MHV Male Cable Using 75 Ohm RG59 Coax PE37668](#)

URL: <https://www.pasternack.com/n-female-to-mhv-male-cable-using-rg59-pe37668-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.

PE37668 CAD Drawing
N Female to MHV Male Cable Using 75 Ohm RG59 Coax



UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, TRAILING DIMENSIONS IN [] ARE MILLIMETERS		PE PASTERNAK an INFINITE brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES:		Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		SCALE NONE	
X = ±.2 [5]		FRACTIONS ± 1/32		SHEET 1 OF 1	
.XX = ±.02 [0.5]		ANGLES ± 1°			
XXX = ±.005 [0.13]		CABLE LENGTH TOLERANCES:			
		<12 [305] = ±.1 [25]			
		>12 [305] ≤ 60 [1524] = ±.1 [25]			
		>60 [1524] ≤ 120 [3048] = ±.1 [25]			
		>120 [3048] ≤ 300 [7620] = ±.1 [25]			
		>300 [7620] = ±.1 [25]			
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS.		DESCRIPTION N FEMALE TO MHV MALE CABLE USING 75 Ohm RG59 COAX			
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NOTES:

- 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.
- CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
- CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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