

## BNC Male to MHV Male Cable Using RG58 Coax



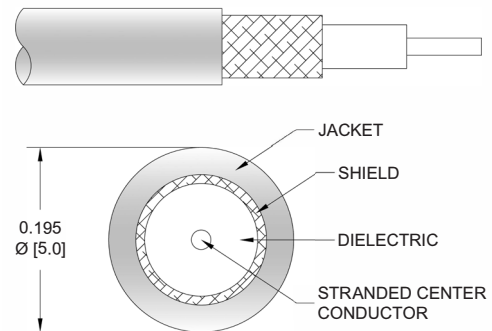
### PE3741

#### Configuration

- Connector 1: BNC Male
- Connector 2: MHV Male
- Cable Type: RG58
- Coax Flex Type: Flexible

#### Features

- Max Frequency 300 MHz
- Shielding Effectivity > 45 dB
- 65.9% Phase Velocity
- PVC (NC) Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3741 BNC male to MHV male cable using RG58 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 BNC to MHV cable assembly has a male to male gender configuration with 50 ohm flexible RG58 coax. The PE3741 BNC male 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	MHz
VSWR			1.4:1	
Velocity of Propagation		65.9		%
RF Shielding	45			dB
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

#### Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	50	100	250	300	MHz	
PE3741	Custom Lengths Available	Insertion Loss (Typ.)	0.03	0.049	0.074	0.083	dB/ft	
			0.1	0.17	0.25	0.28	dB/m	
PE3741-12	12 inch	Insertion Loss (Typ.)	0.23	0.25	0.28	0.29	dB	0.09
PE3741-24	24 inch	Insertion Loss (Typ.)	0.26	0.3	0.35	0.37	dB	0.114
PE3741-36	36 inch	Insertion Loss (Typ.)	0.29	0.35	0.43	0.45	dB	0.138
PE3741-48	48 inch	Insertion Loss (Typ.)	0.32	0.4	0.5	0.54	dB	0.162
PE3741-200CM	200 cm	Insertion Loss (Typ.)	0.4	0.53	0.69	0.75	dB	0.466

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:	0.09 pounds
Additional Weight per Inch:	0.002 pounds

## Mechanical Specifications

### Cable Assembly

Weight	0.09 lbs [40.82 g]
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### Cable

Cable Type	RG58
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper, Tin
Dielectric Type	PE
Number of Shields	1
Shield Layer 1	Tinned Copper Braid
Jacket Material	PVC (NC), Black
Jacket Diameter	0.195 in [4.95 mm]
One Time Minimum Bend Radius	2 in [50.8 mm]

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### Connectors

Description	Connector 1	Connector 2
Type	BNC Male	MHV Male
Specification	MIL-STD-348A	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	90 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification		100 µin minimum

### Environmental Specifications

Operating Range Temperature -40 to +80 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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### PE3741

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3741**

**- xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3741-12 = 12 inches long cable  
PE3741-100cm = 100 cm long cable

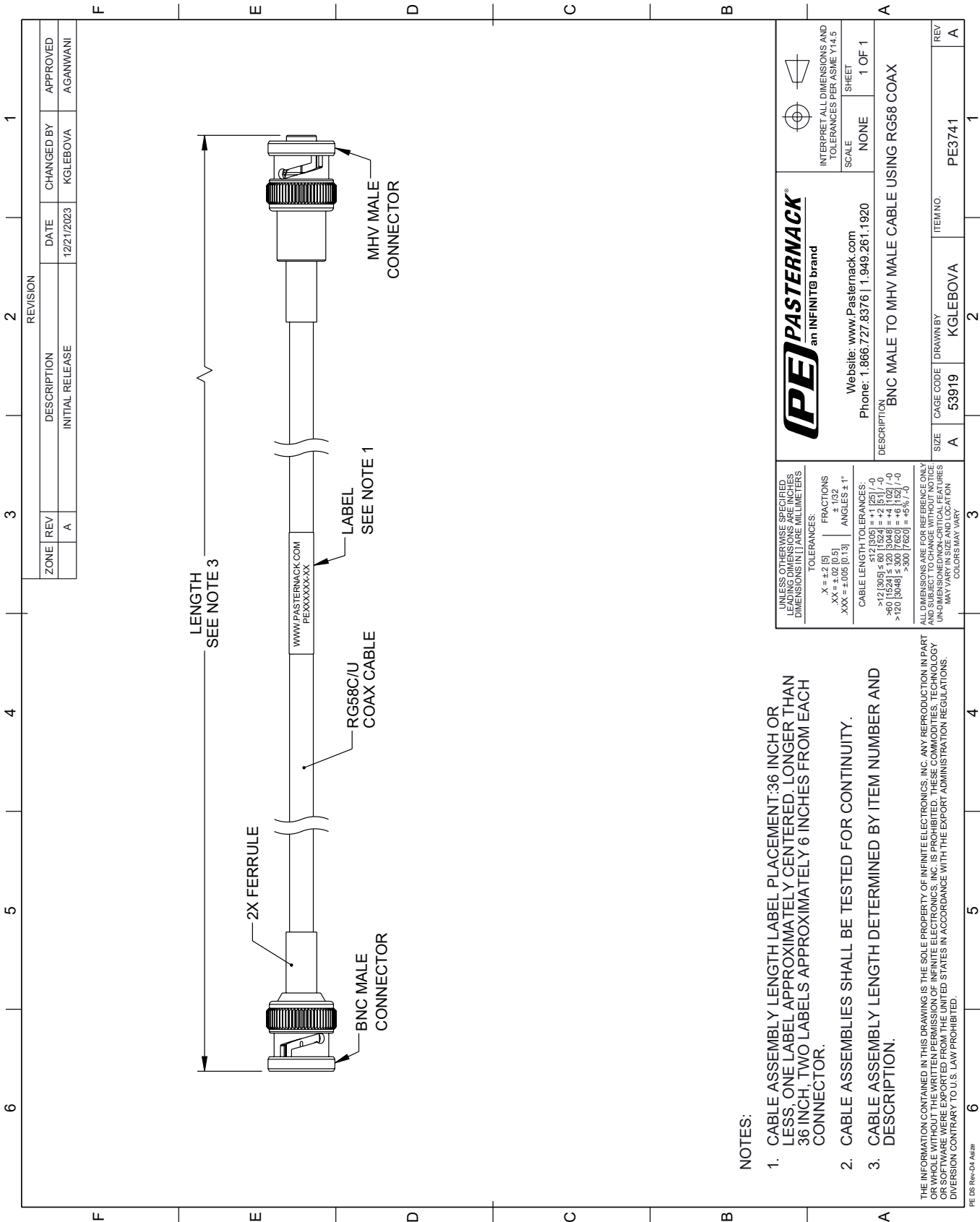
BNC Male to MHV Male Cable Using RG58 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male to MHV Male Cable Using RG58 Coax PE3741](#)

URL: <https://www.pasternack.com/bnc-male-to-mhv-male-cable-using-rg58-pe3741-p.aspx>

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PE3741 CAD Drawing
BNC Male to MHV Male Cable Using RG58 Coax



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

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