



MHV Female to MHV Male Cable Using  
75 Ohm RG59 Coax In 100 CM Length

**RF Cable Assemblies Technical Data Sheet**

**PE34324-100CM**

**Configuration**

- Connector 1: MHV Female
- Connector 2: MHV Male
- Cable Type: RG59

**Features**

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

**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE34324-100CM MHV female to MHV male 100 cm 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 MHV to MHV cable assembly has a female to male gender configuration with 75 ohm flexible RG59 coax. The PE34324-100CM MHV 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     | MHz          |
| Velocity of Propagation |         | 66           |         | %            |
| Capacitance             |         | 20.4 [66.93] |         | pF/ft [pF/m] |
| Operating Voltage (AC)  |         |              | 1,600   | Vrms         |

**Specifications by Frequency**

| Description           | F1  | F2   | F3 | F4 | F5 | Units |
|-----------------------|-----|------|----|----|----|-------|
| Frequency             | 250 | 300  |    |    |    | MHz   |
| Insertion Loss (Typ.) | 0.3 | 0.32 |    |    |    | dB    |

Electrical Specification Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MHV Female to MHV Male Cable Using 75 Ohm RG59 Coax In 100 CM Length PE34324-100CM](#)



MHV Female to MHV Male Cable Using  
75 Ohm RG59 Coax In 100 CM Length

**RF Cable Assemblies Technical Data Sheet**

**PE34324-100CM**

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1\*SQRT(FGHz) dB per connector.

**Mechanical Specifications**

**Cable Assembly**

|         |                     |
|---------|---------------------|
| Length* | 39.37 in [100 cm]   |
| Weight  | 0.164 lbs [74.39 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] |

**Connectors**

| Description                        | Connector 1   | Connector 2     |
|------------------------------------|---------------|-----------------|
| Type                               | MHV Female    | MHV Male        |
| Specification                      | MIL-C-39012   | MIL-STD-348A    |
| Impedance                          | 50 Ohms       | 50 Ohms         |
| Contact Material and Plating       | Silver        | Brass, Gold     |
| Contact Plating Specification      | QQ-S-365      | 30 µin minimum  |
| Dielectric Type                    | Teflon        | PTFE            |
| Body Material and Plating          | Brass, Nickel | Brass, Nickel   |
| Body Plating Specification         |               | 100 µin minimum |
| Coupling Nut Material and Plating  |               | Brass, Nickel   |
| Coupling Nut Plating Specification |               | 100 µin minimum |

**Environmental Specifications**

**Temperature**

|                 |                  |
|-----------------|------------------|
| Operating Range | -40 to +80 deg C |
|-----------------|------------------|

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MHV Female to MHV Male Cable Using 75 Ohm RG59 Coax In 100 CM Length PE34324-100CM](#)



## MHV Female to MHV Male Cable Using 75 Ohm RG59 Coax In 100 CM Length

### RF Cable Assemblies Technical Data Sheet

**PE34324-100CM**

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

#### Plotted and Other Data

Notes:

#### How to Order

Part Number Configuration:

**PE34324**

**- xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE34324-12 = 12 inches long cable  
PE34324-100cm = 100 cm long cable

MHV Female to MHV Male Cable Using 75 Ohm RG59 Coax In 100 CM Length 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: [MHV Female to MHV Male Cable Using 75 Ohm RG59 Coax In 100 CM Length PE34324-100CM](#)

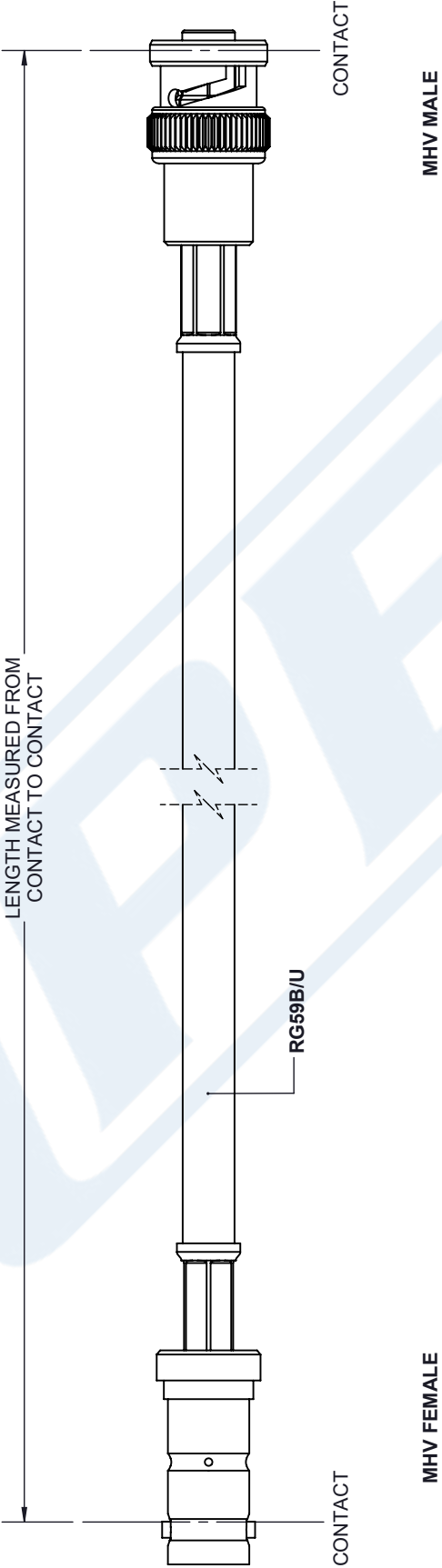
URL: <https://www.pasternack.com/mhv-female-to-mhv-male-cable-100-cm-leAgth-usiAg-rg59-pe34324-100cm-p.aspx>

The information contained in 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 reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE34324-100CM CAD Drawing

MHV Female to MHV Male Cable Using 75 Ohm RG59 Coax In 100 CM Length

| REVISIONS |                 |            |            |
|-----------|-----------------|------------|------------|
| REV.      | DESCRIPTION     | DATE       | APPROVED   |
| A         | INITIAL RELEASE | 11/10/2021 | A. GANWANI |



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

TOLERANCES:

|               |          |             |
|---------------|----------|-------------|
| X = ± .2      | [ .008 ] | FRACTIONS   |
| .XX = ± .02   | [ .51 ]  | ± 1/32      |
| .XXX = ± .005 | [ .13 ]  | ANGLES ± 1° |

CABLE LENGTH (L) TOLERANCES:

|                             |                 |
|-----------------------------|-----------------|
| L ≤ 12 [305]                | = +1 [25] / -0  |
| 12 [305] < L ≤ 60 [1524]    | = +2 [51] / -0  |
| 60 [1524] < L ≤ 120 [3048]  | = +4 [102] / -0 |
| 120 [3048] < L ≤ 300 [7620] | = +6 [152] / -0 |
| 300 [7620] < L              | = +5% / -0      |

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

**PE PASTERNAK**  
an INFINITE brand

Pasternack Enterprises, Inc.  
P.O.Box 16759, Irvine, CA 92623.  
Phone: 1.949.261.1920 | 1.866.727.8376  
Fax: 1.949.261.7451  
Website: www.pasternack.com  
E-mail: sales@pasternack.com

THIRD-ANGLE PROJECTION

THE INFORMATION AND  
DESIGN IN THIS DOCUMENT  
IS THE PROPERTY OF  
PASTERNAK CORPORATION  
ALL RIGHTS RESERVED.

SHEET 1 OF 1

SCALE N/A

|      |           |          |          |
|------|-----------|----------|----------|
| SIZE | CAGE CODE | DRAWN BY | ITEM NO. |
| A    | 53919     | K.DANG   | PE34324  |
|      |           |          | REV A    |

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.