



## MHV Male to MHV Male Cable 72 Inch Length Using RG400 Coax

### RF Cable Assemblies Technical Data Sheet

**PE34425-72**

#### Configuration

- Connector 1: MHV Male
- Connector 2: MHV Male
- Cable Type: RG400

#### Features

- Max Frequency 300 MHz
- 69.5% Phase Velocity
- Double Shielded
- FEP Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE34425-72 MHV male to MHV male 72 inch cable using RG400 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 male to male gender configuration with 50 ohm flexible RG400 coax. The PE34425-72 MHV male to MHV male cable assembly operates to 300 MHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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 |         | 69.5        |         | %            |
| Capacitance             |         | 32 [104.99] |         | pF/ft [pF/m] |

#### Specifications by Frequency

| Description           | F1   | F2   | F3 | F4 | F5 | Units |
|-----------------------|------|------|----|----|----|-------|
| Frequency             | 100  | 300  |    |    |    | MHz   |
| Insertion Loss (Typ.) | 0.47 | 0.65 |    |    |    | dB    |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MHV Male to MHV Male Cable 72 Inch Length Using RG400 Coax PE34425-72](#)



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### Mechanical Specifications

#### Cable Assembly

Length\* 72 in [182.88 cm]

Weight 0.349 lbs [158.3 g]

#### Cable

Cable Type RG400  
Impedance 50 Ohms  
Inner Conductor Type Stranded  
Inner Conductor Material and Plating Copper, Silver  
Dielectric Type PTFE  
Number of Shields 2  
Shield Layer 1 Silver Plated Copper Braid  
Shield Layer 2 Silver Plated Copper Braid  
Jacket Material FEP, Tan  
Jacket Diameter 0.195 in [4.95 mm]

One Time Minimum Bend Radius 1 in [25.4 mm]

### Connectors

| Description               | Connector 1   | Connector 2   |
|---------------------------|---------------|---------------|
| Type                      | MHV Male      | MHV Male      |
| Impedance                 | 50 Ohms       | 50 Ohms       |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |

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

### Plotted and Other Data

Notes:

- Values at 25°C, sea level.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MHV Male to MHV Male Cable 72 Inch Length Using RG400 Coax PE34425-72](#)



## MHV Male to MHV Male Cable 72 Inch Length Using RG400 Coax

### RF Cable Assemblies Technical Data Sheet

**PE34425-72**

#### How to Order

Part Number Configuration:

**PE34425**

- **xx**

**uu**

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

Example: PE34425-12 = 12 inches long cable  
PE34425-100cm = 100 cm long cable

MHV Male to MHV Male Cable 72 Inch Length Using RG400 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: [MHV Male to MHV Male Cable 72 Inch Length Using RG400 Coax PE34425-72](#)

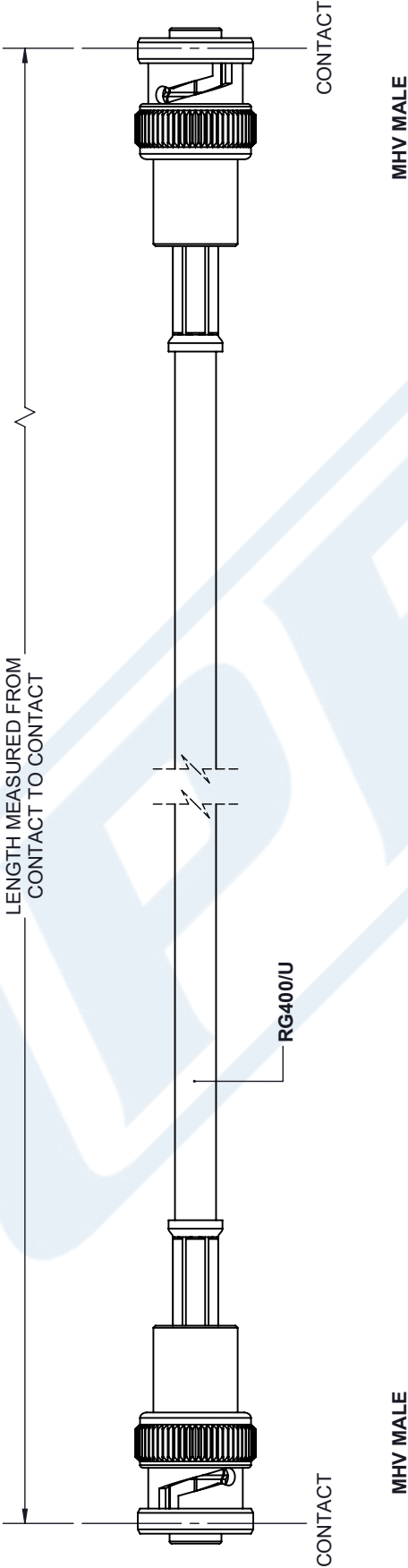
URL: <https://www.pasternack.com/mhv-male-mhv-male-rg400u-cable-assembly-pe34425-72-p.aspx>

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.

PE34425-72 CAD Drawing

MHV Male to MHV Male Cable 72 Inch Length Using RG400 Coax

| REVISIONS |             |            |
|-----------|-------------|------------|
| REV.      | DESCRIPTION | DATE       |
| B         | PCR PE34425 | 1/19/2022  |
|           |             | 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

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

|      |           |          |          |
|------|-----------|----------|----------|
| SIZE | CAGE CODE | DRAWN BY | ITEM NO. |
| A    | 53919     | K.DANG   | PE34425  |
|      |           |          | REV B    |

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