



MCX Plug Right Angle to MCX Jack Bulkhead  
Cable Using RG174 Coax

RF Cable Assemblies Technical Data Sheet

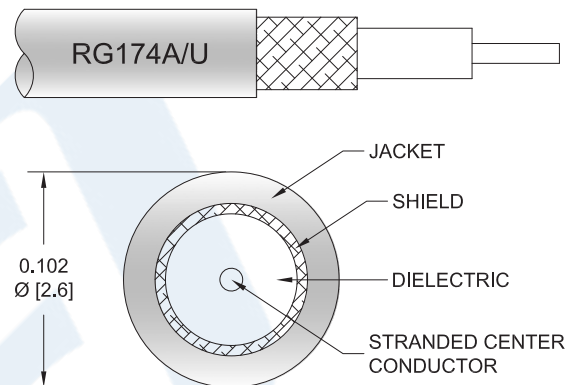
PE3W01300

**Configuration**

- Connector 1: MCX Plug Right Angle
- Connector 2: MCX Jack Bulkhead
- Cable Type: RG174

**Features**

- Max Frequency 1 GHz
- 66% Phase Velocity
- PVC Jacket



**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3W01300 MCX plug right angle to MCX jack bulkhead cable using RG174 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 MCX to MCX cable assembly has a plug to jack gender configuration with 50 ohm flexible RG174 coax. The PE3W01300 MCX plug to MCX jack cable assembly operates to 1 GHz. The right angle MCX interface on the RG174 cable allows for easier connections in tight spaces. Our RF cable assembly with MCX bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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      |               | 1,000   | MHz          |
| VSWR                    |         |               | 1.5:1   |              |
| Velocity of Propagation |         | 66            |         | %            |
| Capacitance             |         | 31.1 [102.03] |         | pF/ft [pF/m] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MCX Plug Right Angle to MCX Jack Bulkhead Cable Using RG174 Coax PE3W01300](#)



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### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4    | F5 | Units |
|-----------------------|------|------|------|-------|----|-------|
| Frequency             | 100  | 250  | 500  | 1,000 |    | MHz   |
| Insertion Loss (Max.) | 0.08 | 0.12 | 0.18 | 0.32  |    | dB/ft |
|                       | 0.26 | 0.39 | 0.59 | 1.05  |    |       |

### Electrical Specification Notes:

Insertion Loss does not include the loss of connectors. Insertion Loss is estimated as 0.3dB of connector loss

### Mechanical Specifications

#### Cable Assembly

|          |                     |
|----------|---------------------|
| Diameter | 0.25 in [6.35 mm]   |
| Weight   | 0.023 lbs [10.43 g] |

#### Cable

|                                      |                           |
|--------------------------------------|---------------------------|
| Cable Type                           | RG174                     |
| Impedance                            | 50 Ohms                   |
| Inner Conductor Type                 | Stranded                  |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type                      | PE                        |
| Number of Shields                    | 1                         |
| Shield Layer 1                       | Tinned Copper Braid       |
| Jacket Material                      | PVC, Black                |
| Jacket Diameter                      | 0.11 in [2.79 mm]         |

### Connectors

| Description                   | Connector 1          | Connector 2            |
|-------------------------------|----------------------|------------------------|
| Type                          | MCX Plug Right Angle | MCX Jack Bulkhead      |
| Specification                 | CECC 22220           | CECC 22220             |
| Impedance                     | 50 Ohms              | 50 Ohms                |
| Contact Material and Plating  | Brass, Gold          | Beryllium Copper, Gold |
| Contact Plating Specification | 30 µin minimum       | 50 µin minimum         |
| Dielectric Type               | PTFE                 | PTFE                   |
| Body Material and Plating     | Brass, Nickel        | Brass, Gold            |
| Body Plating Specification    | 100 µin minimum      | 30 µin minimum         |

### Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.

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# MCX Plug Right Angle to MCX Jack Bulkhead Cable Using RG174 Coax

## RF Cable Assemblies Technical Data Sheet

PE3W01300

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

### Plotted and Other Data

Notes:

### How to Order

Part Number Configuration:

**PE3W01300 - xx uu**

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

Example: PE3W01300-12 = 12 inches long cable  
PE3W01300-100cm = 100 cm long cable

MCX Plug Right Angle to MCX Jack Bulkhead Cable Using RG174 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.

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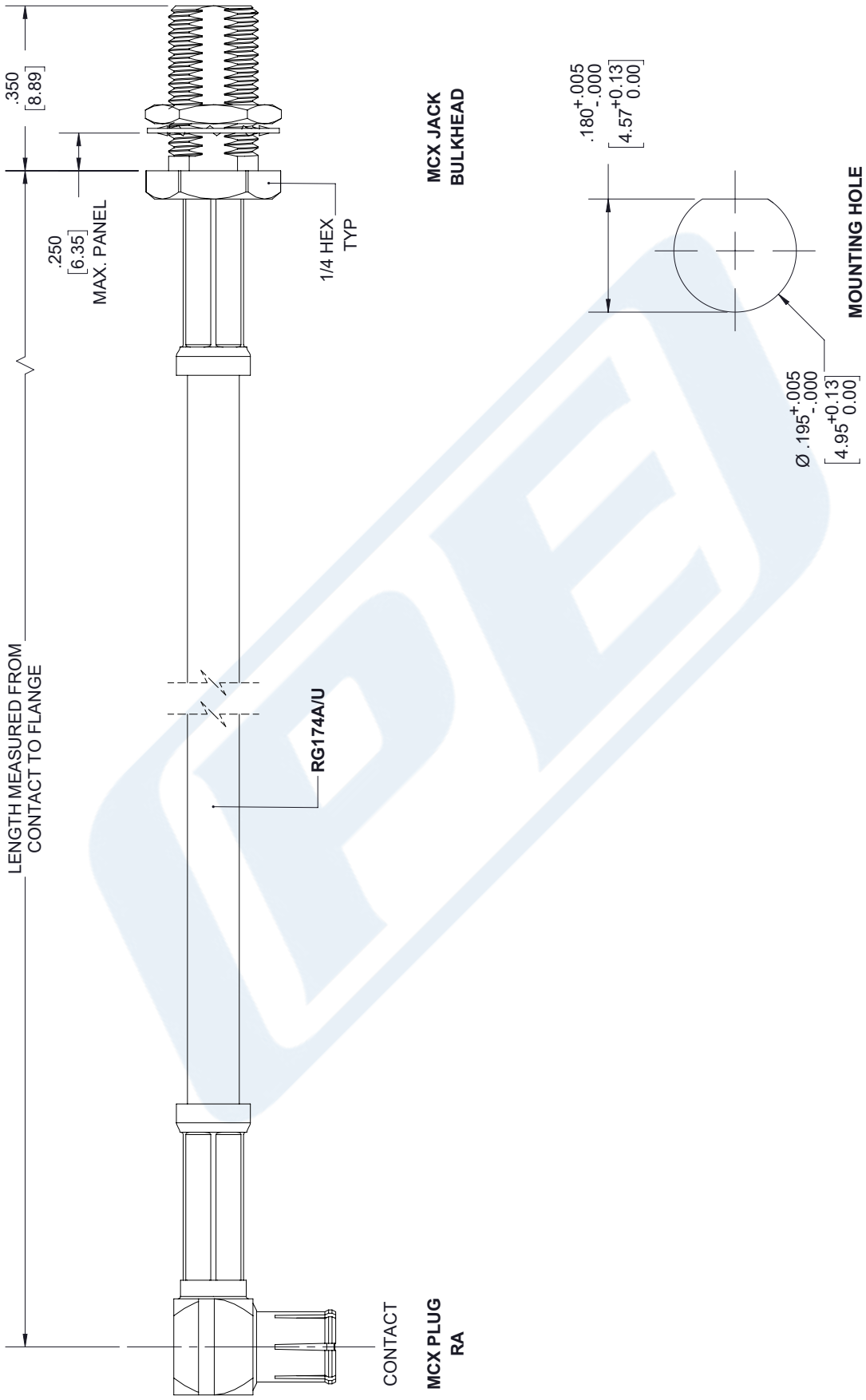
URL: <https://www.pasternack.com/mcx-plug-mcx-jack-rg174au-cable-assembly-pe3w01300-p.aspx>

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.

# PE3W01300 CAD Drawing

## MCX Plug Right Angle to MCX Jack Bulkhead Cable Using RG174 Coax

| REVISIONS |                 |          |          |
|-----------|-----------------|----------|----------|
| REV.      | DESCRIPTION     | DATE     | APPROVED |
| A         | INITIAL RELEASE | 04/30/19 | S.ELLIS  |



|  |                              |  |           |       |         |       |             |  |           |       |  |  |   |  |
|--|------------------------------|--|-----------|-------|---------|-------|-------------|--|-----------|-------|--|--|---|--|
| <p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <table style="width: 100%; border: none;"> <tr> <td style="border: none;">X±.2</td> <td style="border: none;">[5.08]</td> <td style="border: none;">FRACTIONS</td> <td style="border: none;">±.132</td> </tr> <tr> <td style="border: none;">.XX±.01</td> <td style="border: none;">[.25]</td> <td style="border: none;">ANGLES ± 1°</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">.XXX±.005</td> <td style="border: none;">[.13]</td> <td style="border: none;">ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</td> <td style="border: none;"></td> </tr> </table> <p>THIRD-ANGLE PROJECTION</p> | X±.2                         | [5.08]                                       | FRACTIONS | ±.132 | .XX±.01 | [.25] | ANGLES ± 1° |  | .XXX±.005 | [.13] | ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. |  | <p style="text-align: center;"><b>PE PASTERNAK</b><br/>an INFINITO brand</p> <p style="text-align: center;">Pasternack Enterprises, Inc.<br/>P.O. Box 16759, Irvine, CA 92623.<br/>Phone: 1.949.261.1920   1.866.727.8376<br/>Fax: 1.949.261.7451<br/>www.pasternack.com   e-mail: sales@pasternack.com</p> | <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p> |
| X±.2   | [5.08]                       | FRACTIONS                                    | ±.132     |       |         |       |             |  |           |       |  |  |   |  |
| .XX±.01  | [.25]                        | ANGLES ± 1°                                  |           |       |         |       |             |  |           |       |  |  |   |  |
| .XXX±.005  | [.13]                        | ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. |           |       |         |       |             |  |           |       |  |  |   |  |
| <p>SIZE A</p> <p>CAGE 53919</p> <p>DRAWN BY K.DANG</p>   | <p>PART NUMBER PE3W01300</p> | <p>REV A</p>                                 |           |       |         |       |             |  |           |       |  |  |   |  |

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