



## MCX Jack to MCX Jack Cable 150 cm Length Using RG178 Coax

### RF Cable Assemblies Technical Data Sheet

**PE3W00099-150CM**

#### Configuration

- Connector 1: MCX Jack
- Connector 2: MCX Jack
- Cable Type: RG178

#### Features

- Max Frequency 3 GHz
- 69.5% Phase Velocity
- FEP Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W00099-150CM MCX jack to MCX jack 150 cm cable using RG178 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 jack to jack gender configuration with 50 ohm flexible RG178 coax. The PE3W00099-150CM MCX jack to MCX jack cable assembly operates to 3 GHz.

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      |              | 3       | GHz          |
| VSWR                    |         |              | 1.5:1   |              |
| Velocity of Propagation |         | 69.5         |         | %            |
| Capacitance             |         | 29.4 [96.46] |         | pF/ft [pF/m] |

#### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.25 | 0.5  | 1    | 2.5  | 3    | GHz   |
| Insertion Loss (Max.) | 1.05 | 1.32 | 2.39 | 3.51 | 4.06 | 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: [MCX Jack to MCX Jack Cable 150 cm Length Using RG178 Coax PE3W00099-150CM](#)



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The Insertion Loss data above is based on the performance specifications of the coax use in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2dB of connector Loss

#### Mechanical Specifications

##### Cable Assembly

Length\* 59.06 in [150.01 cm]  
Diameter 0.196 in [4.98 mm]

##### Cable

Cable Type RG178  
Impedance 50 Ohms  
Inner Conductor Type Stranded  
Inner Conductor Material and Plating Copper Clad Steel, Silver  
Dielectric Type PTFE  
Number of Shields 1  
Shield Layer 1 Silver Plated Copper Braid  
Jacket Material FEP, Tan  
Jacket Diameter 0.072 in [1.83 mm]  
  
Repeated Minimum Bend Radius 0.393 in [9.98 mm]

#### Connectors

| Description                  | Connector 1 | Connector 2 |
|------------------------------|-------------|-------------|
| Type                         | MCX Jack    | MCX Jack    |
| Impedance                    | 50 Ohms     | 50 Ohms     |
| Contact Material and Plating | Gold        | Gold        |
| Dielectric Type              | PTFE        | PTFE        |
| Body Material and Plating    | Brass, Gold | Brass, Gold |

Mechanical Specification Notes:

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

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

#### Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MCX Jack to MCX Jack Cable 150 cm Length Using RG178 Coax PE3W00099-150CM](#)



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**PE3W00099-150CM**

#### How to Order

Part Number Configuration:

**PE3W00099**

- **xx**

**uu**

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

Example: PE3W00099-12 = 12 inches long cable  
PE3W00099-100cm = 100 cm long cable

MCX Jack to MCX Jack Cable 150 cm Length Using RG178 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.

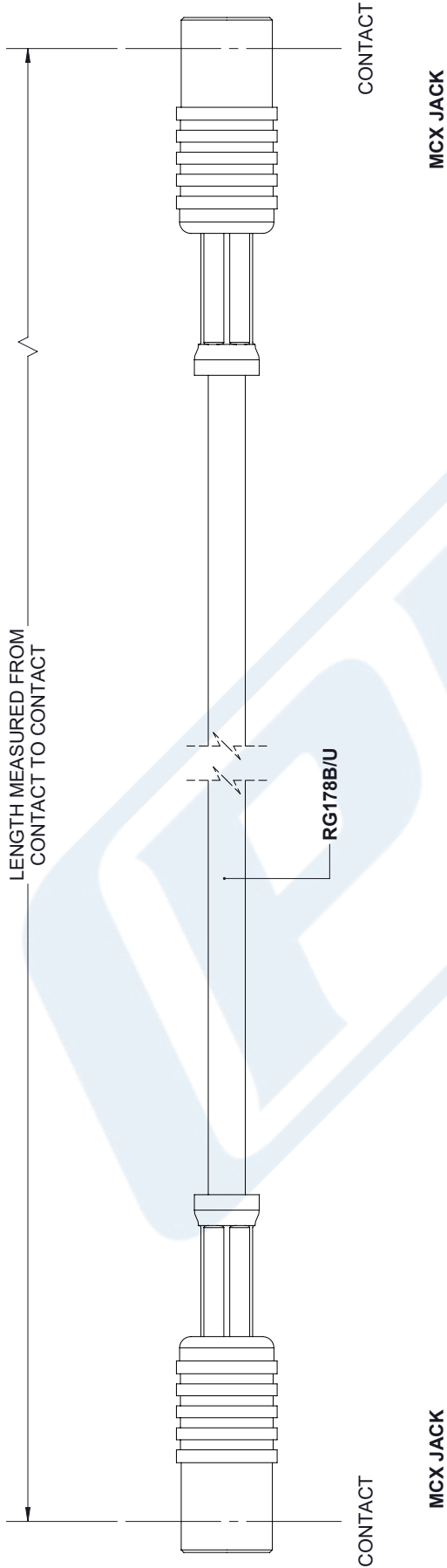
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MCX Jack to MCX Jack Cable 150 cm Length Using RG178 Coax PE3W00099-150CM](https://www.pasternack.com/mcx-jack-mcx-jack-rg178bu-cable-assembly-pe3w00099-150cm-p.aspx)

URL: <https://www.pasternack.com/mcx-jack-mcx-jack-rg178bu-cable-assembly-pe3w00099-150cm-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.

PE3W00099-150CM CAD Drawing  
MCX Jack to MCX Jack Cable 150 cm Length Using RG178 Coax

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



|                                                                                                  |             |
|--------------------------------------------------------------------------------------------------|-------------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |             |
| TOLERANCES:                                                                                      | FRACTIONS   |
| X±.2 [5.08]                                                                                      | ±.132       |
| .XX±.01 [.25]                                                                                    | ±.132       |
| .XXX±.005 [.13]                                                                                  | ANGLES ± 1° |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.                                                  |             |
| THIRD-ANGLE PROJECTION                                                                           |             |

|                                                                                                                                                                                         |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>PE PASTERNAK</b><br>an INFINITE brand                                                                                                                                                |           |
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| SIZE                                                                                                                                                                                    | CAGE      |
| A                                                                                                                                                                                       | 53919     |
| DRAWN BY                                                                                                                                                                                | K.DANG    |
| PART NUMBER                                                                                                                                                                             | PE3W00099 |
| REV                                                                                                                                                                                     | A         |

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|------------------------------------------------------------------------------------------------------------------------|--------|
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| SHEET                                                                                                                  | 1 OF 1 |
| SCALE                                                                                                                  | N/A    |

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