



50 Ohm MCX Plug to 75 Ohm BNC Male Cable  
150 CM Length Using 75 Ohm RG187 Coax

## RF Cable Assemblies Technical Data Sheet

PE3C5491-150CM

### Configuration

- Connector 1: MCX Plug
- Connector 2: BNC Male
- Cable Type: RG187

### Features

- Max Frequency 1 GHz
- 70% Phase Velocity
- PTFE Jacket

### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3C5491-150CM 50 ohm MCX plug to 75 ohm BNC male 150 cm cable using 75 ohm RG187 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 BNC cable assembly has a plug to male gender configuration with 75 ohm flexible RG187 coax. The PE3C5491-150CM MCX plug to BNC male cable assembly operates to 1 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      |              | 1,000   | MHz             |
| Velocity of Propagation       |         | 70           |         | %               |
| Capacitance                   |         | 19.5 [63.98] |         | pF/ft [pF/m]    |
| DC Resistance Inner Conductor |         | 245 [803.81] |         | Ω/1000ft [Ω/Km] |
| Operating Voltage (AC)        |         |              | 250     | Vrms            |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specification of the coax used 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]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [50 Ohm MCX Plug to 75 Ohm BNC Male Cable 150 CM Length Using 75 Ohm RG187 Coax PE3C5491-150CM](#)



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Diameter 0.571 in [14.5 mm]

### Cable

|                                      |                            |
|--------------------------------------|----------------------------|
| Cable Type                           | RG187                      |
| Impedance                            | 75 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                      | PTFE, White                |
| Jacket Diameter                      | 0.102 in [2.59 mm]         |

### Connectors

| Description                        | Connector 1     | Connector 2     |
|------------------------------------|-----------------|-----------------|
| Type                               | MCX Plug        | BNC Male        |
| Specification                      | CECC 22220      |                 |
| Impedance                          | 50 Ohms         | 75 Ohms         |
| 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         | 100 µin minimum | 100 µin minimum |
| Coupling Nut Material and Plating  |                 | Brass, Nickel   |
| Coupling Nut Plating Specification |                 | 100 µin minimum |

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: [50 Ohm MCX Plug to 75 Ohm BNC Male Cable 150 CM Length Using 75 Ohm RG187 Coax PE3C5491-150CM](#)



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## RF Cable Assemblies Technical Data Sheet

PE3C5491-150CM

### How to Order

Part Number Configuration:

**PE3C5491**

- **xx**

**uu**

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

Example: PE3C5491-12 = 12 inches long cable  
PE3C5491-100cm = 100 cm long cable

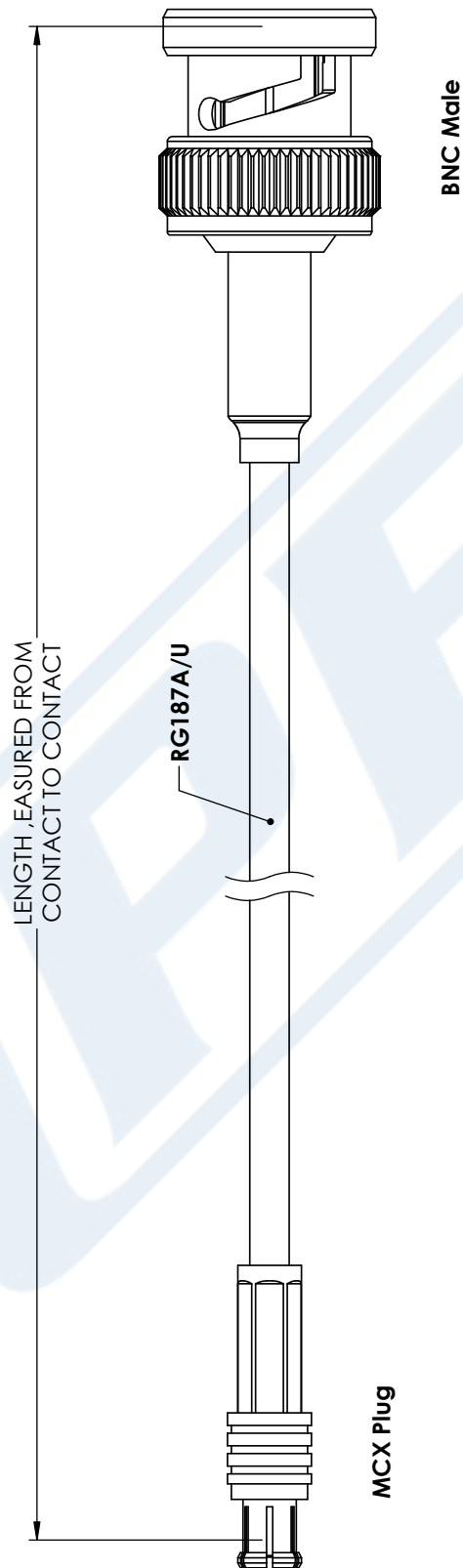
50 Ohm MCX Plug to 75 Ohm BNC Male Cable 150 CM Length Using 75 Ohm RG187 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [50 Ohm MCX Plug to 75 Ohm BNC Male Cable 150 CM Length Using 75 Ohm RG187 Coax PE3C5491-150CM](https://www.pasternack.com/mcx-plug-bnc-male-rg187au-cable-assembly-pe3c5491-150cm-p.aspx)

URL: <https://www.pasternack.com/mcx-plug-bnc-male-rg187au-cable-assembly-pe3c5491-150cm-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.

PE3C5491-150CM CAD Drawing  
50 Ohm MCX Plug to 75 Ohm BNC Male Cable 150 CM  
Length Using 75 Ohm RG187 Coax



| STANDARD TOLERANCES |        |
|---------------------|--------|
| .X                  | ±0.2   |
| .XX                 | ±0.01  |
| .XXX                | ±0.005 |

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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|           |          |
|-----------|----------|
| DWG TITLE | PE3C5491 |
| CAGE CODE | 53919    |

|                                                                                                                                                                                     |          |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|
| NOTES:<br>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.<br>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.<br>3. DIMENSIONS ARE IN INCHES [mm]. |          |           |
| CAD FILE                                                                                                                                                                            | 09/20/18 | SCALE N/A |
| SIZE A                                                                                                                                                                              |          | CN2245    |