



C Male Right Angle to C Male Cable 100 cm Using RG214 Coax

## RF Cable Assemblies Technical Data Sheet

**PE3W08103-100CM**

### Configuration

- Connector 1: C Male Right Angle
- Connector 2: C Male
- Cable Type: RG214

### Features

- Max Frequency 3 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3W08103-100CM type C male right angle to type C male 100 cm cable using RG214 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 type C to type C cable assembly has a male to male gender configuration with 50 ohm flexible RG214 coax. The PE3W08103-100CM type C male to type C male cable assembly operates to 3 GHz. The right angle type C interface on the RG214 cable allows for easier connections in tight spaces. 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [C Male Right Angle to C Male Cable 100 cm Using RG214 Coax PE3W08103-100CM](#)



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### Electrical Specifications

| Description             | Minimum | Typical       | Maximum | Units        |
|-------------------------|---------|---------------|---------|--------------|
| Frequency Range         | DC      |               | 3       | GHz          |
| VSWR                    |         |               | 1.5:1   |              |
| Velocity of Propagation |         | 66            |         | %            |
| Capacitance             |         | 30.8 [101.05] |         | 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.) | 0.41 | 0.46 | 0.56 | 0.72 | 0.77 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss is estimated as 0.2 dB per C male right angle connector and 0.1 dB per C male connector.

### Mechanical Specifications

#### Cable Assembly

|          |                    |
|----------|--------------------|
| Length*  | 39.37 in [100 cm]  |
| Diameter | 0.75 in [19.05 mm] |

#### Cable

|                                      |                            |
|--------------------------------------|----------------------------|
| Cable Type                           | RG214                      |
| Impedance                            | 50 Ohms                    |
| Inner Conductor Type                 | Stranded                   |
| Inner Conductor Material and Plating | Copper, Silver             |
| Dielectric Type                      | PE                         |
| Number of Shields                    | 2                          |
| Shield Layer 1                       | Silver Plated Copper Braid |
| Shield Layer 2                       | Silver Plated Copper Braid |
| Jacket Material                      | PVC, Black                 |
| Jacket Diameter                      | 0.425 in [10.8 mm]         |
| Repeated Minimum Bend Radius         | 1.6 in [40.64 mm]          |

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### Connectors

| Description                           | Connector 1        | Connector 2   |
|---------------------------------------|--------------------|---------------|
| Type                                  | C Male Right Angle | C Male        |
| Specification                         | MIL-STD-348A       | MIL-STD-348   |
| Impedance                             | 50 Ohms            | 50 Ohms       |
| Contact Material and Plating          | Brass, Gold        | Silver        |
| Contact Plating Specification         |                    | QQ-S-365      |
| Dielectric Type                       | PTFE               | PTFE          |
| Outer Conductor Material and Plating  | Brass, Nickel      | Brass, Nickel |
| Outer Conductor Plating Specification | 108 µin minimum    | QQ-N-298      |
| Body Material and Plating             | Brass, Nickel      | Brass, Nickel |
| Body Plating Specification            | 100 µin minimum    | QQ-N-290      |
| Coupling Nut Material and Plating     | Brass, Nickel      | Brass, Nickel |
| Coupling Nut Plating Specification    | 100 µin minimum    | QQ-N-290      |
| Seal Gasket Material                  | Silicone           |               |

### Environmental Specifications

#### Temperature

Operating Range

-20 to +80 deg C

**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: [C Male Right Angle to C Male Cable 100 cm Using RG214 Coax PE3W08103-100CM](#)



## C Male Right Angle to C Male Cable 100 cm Using RG214 Coax

### RF Cable Assemblies Technical Data Sheet

**PE3W08103-100CM**

#### How to Order

Part Number Configuration:

**PE3W08103**

- **xx**

**uu**

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

Example: PE3W08103-12 = 12 inches long cable  
PE3W08103-100cm = 100 cm long cable

C Male Right Angle to C Male Cable 100 cm Using RG214 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.

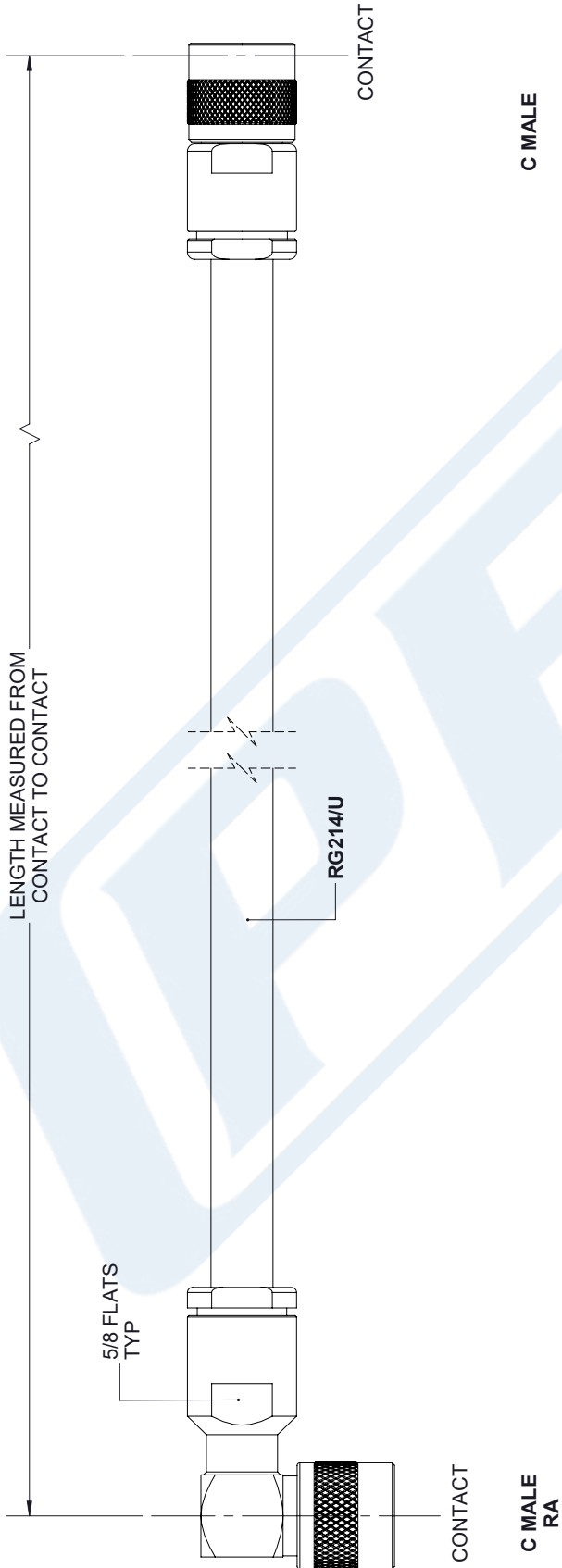
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [C Male Right Angle to C Male Cable 100 cm Using RG214 Coax PE3W08103-100CM](#)

URL: <https://www.pasternack.com/c-male-c-male-rg214u-cable-assembly-pe3w08103-100cm-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.

PE3W08103-100CM CAD Drawing  
C Male Right Angle to C Male Cable 100 cm Using RG214 Coax

| REVISIONS |                 |           |          |
|-----------|-----------------|-----------|----------|
| REV.      | DESCRIPTION     | DATE      | APPROVED |
| A         | INITIAL RELEASE | 1/23/2020 | SELLIS   |



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

TOLERANCES:

|               |        |             |
|---------------|--------|-------------|
| .X = ± .2     | [5.08] | 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% L    | / -0 |

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

**PE PASTERNAK**  
an INFINITI® brand

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

SIZE A

CAGE CODE 53919

DRAWN BY K.DANG

ITEM NO. PE3W08103

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