



C Male Right Angle to C Male Cable 50 cm Using RG214 Coax

RF Cable Assemblies Technical Data Sheet

PE3W08103-50CM

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 PE3W08103-50CM type C male right angle to type C male 50 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 PE3W08103-50CM 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 50 cm Using RG214 Coax PE3W08103-50CM](#)



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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.)	0.35	0.38	0.43	0.51	0.53	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*	19.68 in [499.87 mm]
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	107 µin minimum	QQ-N-297
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:

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PE3W08103-50CM

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 50 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.

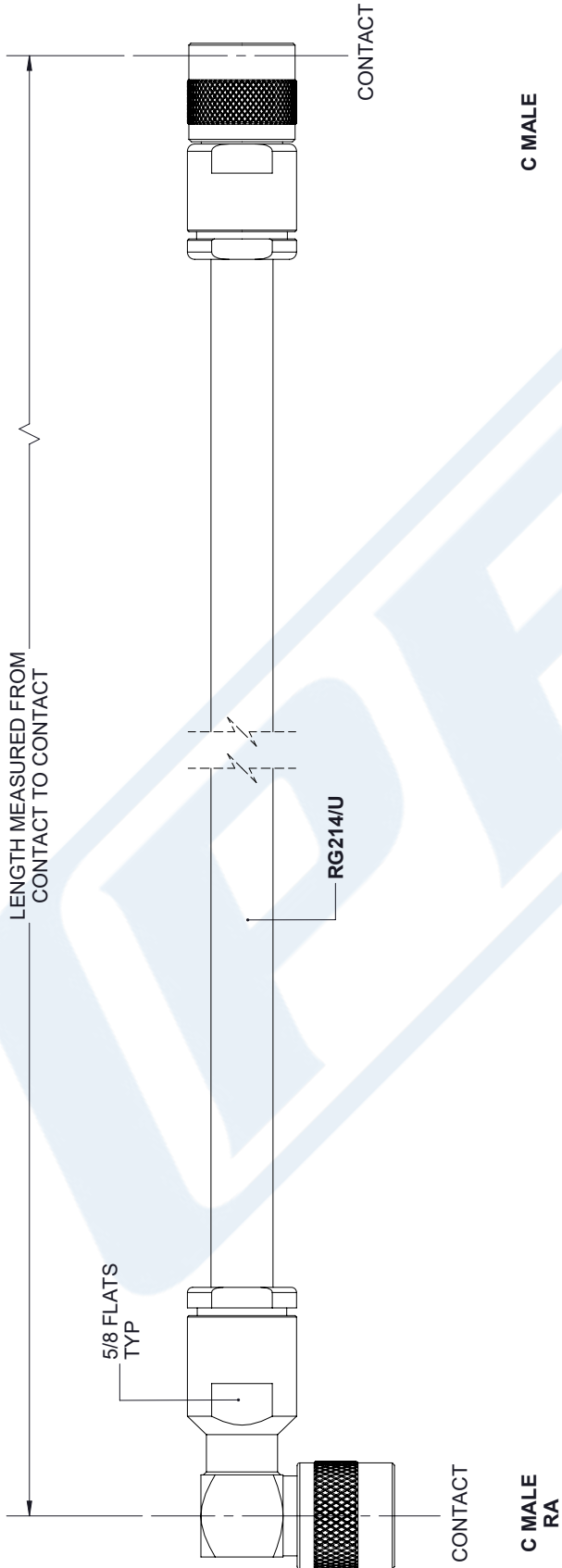
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URL: <https://www.pasternack.com/c-male-c-male-rg214u-cable-assembly-pe3w08103-50cm-p.aspx>

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.

PE3W08103-50CM CAD Drawing
C Male Right Angle to C Male Cable 50 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]
.XX = ± .02	[.51]
.XXX = ± .005	[.13]
ANGLES	± 1°
CABLE LENGTH (L) TOLERANCES:	
L ≤ 12 [305]	± .1 [25]
12 [305] < L ≤ 60 [1524]	± .2 [51]
60 [1524] < L ≤ 120 [3048]	± .4 [102]
120 [3048] < L ≤ 300 [7620]	± .6 [152]
300 [7620] < L	± .5% L / -0
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	

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SIZE	53919
CAGE CODE	K.DANG
DRAWN BY	ITEM NO.
A	PE3W08103
REV	A

THIRD-ANGLE PROJECTION	
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SHEET	1 OF 1
SCALE	N/A