



BNC Male to BNC Male Right Angle Cable
100 CM Length Using 53 Ohm RG55 Coax

RF Cable Assemblies Technical Data Sheet

PE3C6845-100CM

Configuration

- Connector 1: BNC Male
- Connector 2: BNC Male Right Angle
- Cable Type: RG55

Features

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

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C6845-100CM BNC male to BNC male right angle 100 cm cable using 53 ohm RG55 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 BNC to BNC cable assembly has a male to male gender configuration with 53 ohm flexible RG55 coax. The PE3C6845-100CM BNC male to BNC male cable assembly operates to 3 GHz. The right angle BNC interface on the RG55 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: [BNC Male to BNC Male Right Angle Cable 100 CM Length Using 53 Ohm RG55 Coax PE3C6845-100CM](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		28.8 [94.49]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.44	0.5	0.61	0.84	1.34	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 includes an estimated insertion loss of 0.1 dB for the straight connector and 0.2 dB for the right angle connector

Mechanical Specifications

Cable Assembly

Length*	39.37 in [100 cm]
Diameter	0.571 in [14.5 mm]

Cable

Cable Type	RG55
Impedance	53 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PE
Number of Shields	2
Shield Layer 1	Tinned Copper Braid
Shield Layer 2	Tinned Copper Braid
Jacket Material	PE, Black
Jacket Diameter	0.202 in [5.13 mm]

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Connectors

Description	Connector 1	Connector 2
Type	BNC Male	BNC Male Right Angle
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 μ in minimum	30 μ in minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 μ in minimum	100 μ in minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 μ in minimum	100 μ in minimum

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3C6845

- **xx**

uu

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

Example: PE3C6845-12 = 12 inches long cable
PE3C6845-100cm = 100 cm long cable

BNC Male to BNC Male Right Angle Cable 100 CM Length Using 53 Ohm RG55 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: [BNC Male to BNC Male Right Angle Cable 100 CM Length Using 53 Ohm RG55 Coax PE3C6845-100CM](https://www.pasternack.com/bnc-male-bnc-male-right-angle-cable-assembly-pe3c6845-100cm-p.aspx)

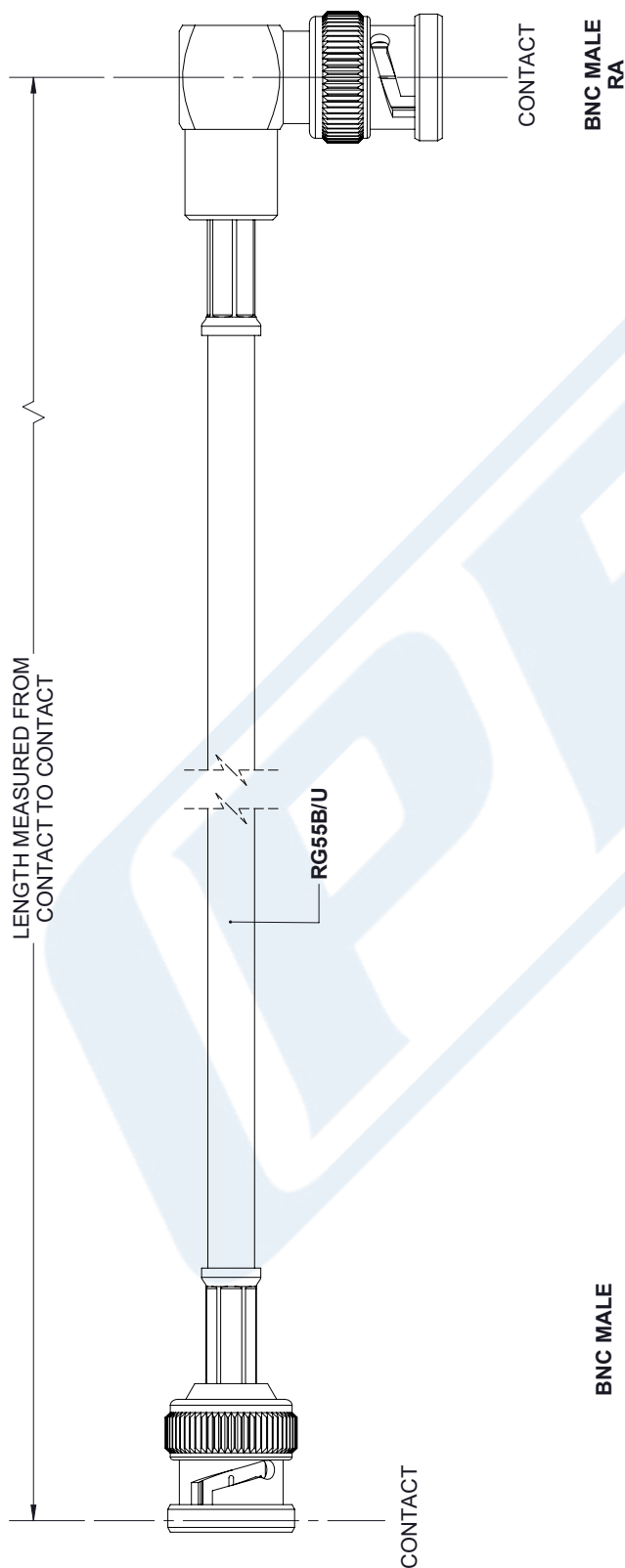
URL: <https://www.pasternack.com/bnc-male-bnc-male-rg55bu-cable-assembly-pe3c6845-100cm-p.aspx>

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.

PE3C6845-100CM CAD Drawing

BNC Male to BNC Male Right Angle Cable 100 CM Length Using 53 Ohm RG55 Coax

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	3/16/2020	SELLIS



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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS TOLERANCES: <table border="1"> <tr> <td>.X = ± .2</td><td>[.08]</td><td>FRACTIONS</td><td>± 1/32</td></tr> <tr> <td>.XX = ± .02</td><td>[.51]</td><td>ANGLES</td><td>± 1°</td></tr> <tr> <td>.XXX = ± .005</td><td>[.13]</td><td>CABLE LENGTH (L)</td><td>TOLERANCES:</td></tr> <tr> <td colspan="4">L ≤ 12 [305] = +1 [25] / -0</td></tr> <tr> <td colspan="4">12 [305] < L ≤ 60 [1524] = +2 [51] / -0</td></tr> <tr> <td colspan="4">60 [1524] < L ≤ 120 [3048] = +4 [102] / -0</td></tr> <tr> <td colspan="4">120 [3048] < L ≤ 300 [7620] = +6 [152] / -0</td></tr> <tr> <td colspan="4">300 [7620] < L = +5% / -0</td></tr> </table> ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		.X = ± .2	[.08]	FRACTIONS	± 1/32	.XX = ± .02	[.51]	ANGLES	± 1°	.XXX = ± .005	[.13]	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% / -0				SHEET 1 OF 1 SCALE N/A	
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