



BNC Male to BNC Male Right Angle Cable  
60 Inch Length Using 53 Ohm RG55 Coax

**RF Cable Assemblies Technical Data Sheet**

**PE3C6845-60**

**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 PE3C6845-60 BNC male to BNC male right angle 60 inch 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 PE3C6845-60 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 60 Inch Length Using 53 Ohm RG55 Coax PE3C6845-60](#)



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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.) | 0.51 | 0.61 | 0.78 | 1.12 | 1.89 | 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*  | 60 in [152.4 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 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   | Brass, Nickel        |
| Coupling Nut Plating Specification | 100 µin minimum | 100 µin minimum      |

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

#### Plotted and Other Data

Notes:

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**RF Cable Assemblies Technical Data Sheet**

**PE3C6845-60**

**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 60 Inch 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 60 Inch Length Using 53 Ohm RG55 Coax PE3C6845-60](https://www.pasternack.com/bnc-male-bnc-male-right-angle-cable-assembly-pe3c6845-60-p.aspx)

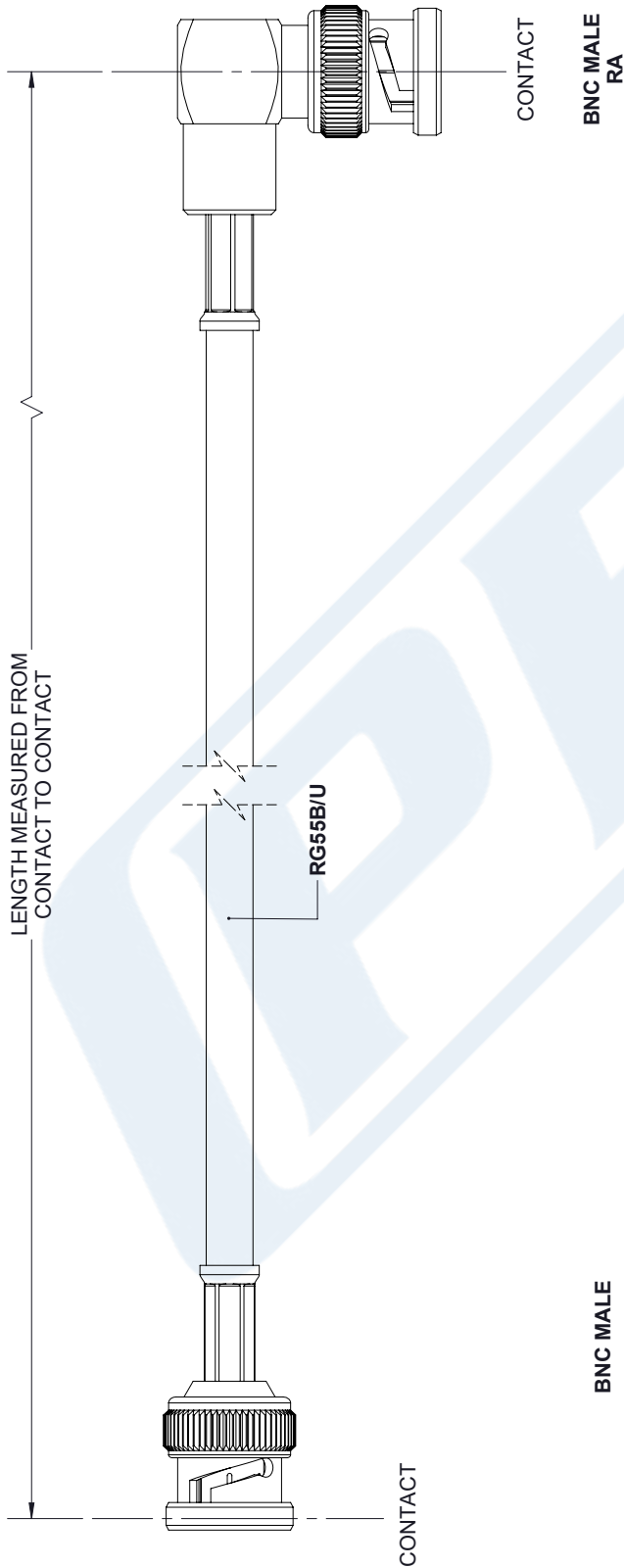
URL: <https://www.pasternack.com/bnc-male-bnc-male-rg55bu-cable-assembly-pe3c6845-60-p.aspx>

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.

# PE3C6845-60 CAD Drawing

BNC Male to BNC Male Right Angle Cable 60 Inch Length Using 53 Ohm RG55 Coax

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



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |                                                                                                                                                                                                                                                                |             |           |        |             |         |        |      |               |         |                  |             |                                                                              |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|--------|-------------|---------|--------|------|---------------|---------|------------------|-------------|------------------------------------------------------------------------------|--|
| <p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         | <p><b>PE PASTERNAK</b><br/>an INFINITI brand</p> <p>Pasternack Enterprises, Inc.<br/>P.O. Box 16759, Irvine, CA 92623.<br/>Phone: 1.949.261.1920   1.866.727.8376<br/>Fax: 1.949.261.7451<br/>Website: www.pasternack.com<br/>E-mail: sales@pasternack.com</p> |             |           |        |             |         |        |      |               |         |                  |             |                                                                              |  |
| <p>UNLESS OTHERWISE SPECIFIED<br/>LEADING DIMENSIONS ARE INCHES<br/>DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <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> </table> <p>L ≤ 12 [305] = +1 [25] / -0<br/>12 [305] &lt; L ≤ 60 [1524] = +2 [51] / -0<br/>60 [1524] &lt; L ≤ 120 [3048] = +4 [102] / -0<br/>120 [3048] &lt; L ≤ 300 [7620] = +6 [152] / -0<br/>300 [7620] &lt; L = +5% L / -0</p> <p>ALL DIMENSIONS SHOWN<br/>ARE FOR REFERENCE ONLY.</p> |         | .X = ± .2                                                                                                                                                                                                                                                      | [ .08 ]     | FRACTIONS | ± 1/32 | .XX = ± .02 | [ .51 ] | ANGLES | ± 1° | .XXX = ± .005 | [ .13 ] | CABLE LENGTH (L) | TOLERANCES: | <p>SIZE CAGE CODE DRAWN BY ITEM NO. REV</p> <p>A 53919 K.DANG PE3C6845 A</p> |  |
| .X = ± .2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | [ .08 ] | FRACTIONS                                                                                                                                                                                                                                                      | ± 1/32      |           |        |             |         |        |      |               |         |                  |             |                                                                              |  |
| .XX = ± .02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | [ .51 ] | ANGLES                                                                                                                                                                                                                                                         | ± 1°        |           |        |             |         |        |      |               |         |                  |             |                                                                              |  |
| .XXX = ± .005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | [ .13 ] | CABLE LENGTH (L)                                                                                                                                                                                                                                               | TOLERANCES: |           |        |             |         |        |      |               |         |                  |             |                                                                              |  |

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