

FAKRA Jack Connector Crimp/Solder Attachment  
 for RG174, RG316, RG188, .100 inch, PE-  
 B100, PE-C100, LMR-100, Black Color



## RF Connectors Technical Data Sheet

PE44646A

### Configuration

- FAKRA Jack Connector
- 50 Ohms
- Straight Body Geometry
- RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100 Interface Type
- Crimp/Solder Attachment

### Features

- Max. Operating Frequency 4 GHz
- Good VSWR of 1.3:1
- Gold Plated Phosphor Bronze Contact

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE44646A FAKRA jack connector with crimp/solder attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100 and LMR-100 is part of our full line of RF components available for same-day shipping. Our FAKRA jack connector operates up to a maximum frequency of 4 GHz and offers good VSWR of 1.3:1.

Our FAKRA jack connector PE44646A datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

### Electrical Specifications

| Description                          | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Frequency Range                      | DC      |         | 4       | GHz   |
| VSWR                                 |         |         | 1.3:1   |       |
| Operating Voltage (AC)               |         |         | 335     | Vrms  |
| Dielectric Withstanding Voltage (AC) |         |         | 1,000   | Vrms  |
| Inner Conductor DC Resistance        |         |         | 6       | mOhms |
| Outer Conductor DC Resistance        |         |         | 2.5     | mOhms |
| Insulation Resistance                | 1,000   |         |         | MOhms |

### Mechanical Specifications

#### Size

|            |                    |
|------------|--------------------|
| Length     | 0.038 in [0.97 mm] |
| Width/Dia. | 0.37 in [9.40 mm]  |
| Height     | 0.54 in [13.72 mm] |
| Weight     | 0.008 lbs [3.63 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [FAKRA Jack Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Black Color PE44646A](#)

FAKRA Jack Connector Crimp/Solder Attachment  
 for RG174, RG316, RG188, .100 inch, PE-  
 B100, PE-C100, LMR-100, Black Color



## RF Connectors Technical Data Sheet

PE44646A

### Material Specifications

| Description     | Material        | Plating |
|-----------------|-----------------|---------|
| Contact         | Phosphor Bronze | Gold    |
| Insulation      | PTFE            |         |
| Outer Conductor | Brass           | Nickel  |
| Body            | Plastic         |         |

### Environmental Specifications

#### Temperature

Operating Range

-40 to +85 deg C

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

### Plotted and Other Data

Notes:

FAKRA Jack Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Black Color 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.

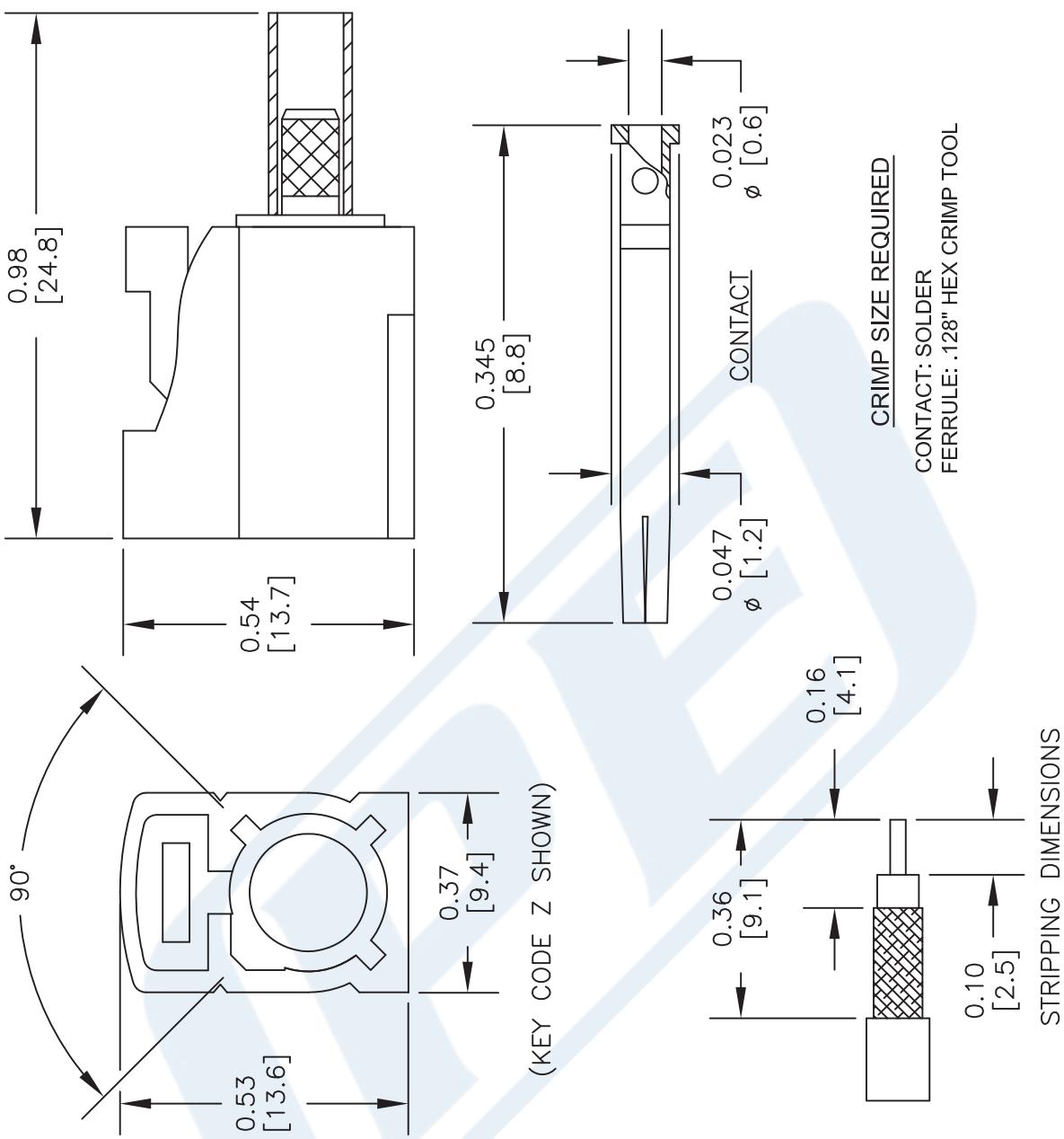
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [FAKRA Jack Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Black Color PE44646A](#)

URL: <https://www.pasternack.com/fakra-jack-standard-pe-c100-rg174-rg316-connector-pe44646a-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.

# PE44646A CAD Drawing

FAKRA Jack Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Black Color



## Part Configurator

### 1. Replace Y with code.

| CODING | JACK | COLOR      | APPLICATION                              |
|--------|------|------------|--|
| A      |      | BLACK      | RADIO WITH PHANTOM SUPPLY                |
| B      |      | WHITE      | RADIO WITHOUT PHANTOM SUPPLY             |
| C      |      | BLUE       | GPS; TELEMATICS OR NAVIGATION            |
| D      |      | BORDEAUX   | GSM; CELLULAR PHONE                      |
| H      |      | VIOLET     | GPS; TELEMATICS AND NAVIGATION           |
| I      |      | BEIGE      | BLUETOOTH                                |
| K      |      | CURRY      | RADIO WITH IF OUTPUT (ANTENNA DIVERSITY) |
| Z      |      | WATER BLUE | NEUTRAL CODING                           |

**PASTERNAK**  
THE ENGINEER'S RF SOURCE

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DWG TITLE  
**PE44646/Y**

NOTES:  
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
3. DIMENSIONS ARE IN INCHES [mm].

|           |       |          |        |       |     |      |   |      |
|-----------|-------|----------|--------|-------|-----|------|---|------|
| CAGE CODE | 53919 | CAD FILE | 041017 | SCALE | N/A | SIZE | A | 2233 |
|-----------|-------|----------|--------|-------|-----|------|---|------|

BNC Male Connector Crimp/Crimp Attachment for .100 inch, RG316, RG174, RG188, LMR-100, LMR-100, LMR-100-FR, PE-C100, PE-B100



## RF Connectors Technical Data Sheet

PE45045

### Configuration

- BNC Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry

- .100 inch, RG316, RG174, RG188, LMR-100, LMR-100, LMR-100-FR, PE-C100, PE-B100 Interface Type
- Crimp/Crimp Attachment

### Features

- Max. Operating Frequency 3 GHz
- Excellent VSWR of 1.25:1

- Gold Plated Brass Contact
- 50 µin minimum contact plating

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE45045 BNC male connector with crimp/crimp attachment for .100 inch, RG316, RG174, RG188, LMR-100, LMR-100, LMR-100-FR, PE-C100 and PE-B100 is part of our full line of RF components available for same-day shipping. Our BNC male connector operates up to a maximum frequency of 3 GHz and offers excellent VSWR of 1.25:1.

Our BNC male connector PE45045 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

### Electrical Specifications

| Description            | Minimum | Typical | Maximum | Units |
|------------------------|---------|---------|---------|-------|
| Frequency Range        | DC      |         | 3       | GHz   |
| VSWR                   |         |         | 1.25:1  |       |
| Operating Voltage (AC) |         |         | 335     | Vrms  |

### Mechanical Specifications

#### Size

- Length
- Width/Dia.
- Weight

- 0.99 in [25.15 mm]
- 0.57 in [14.48 mm]
- 0.027 lbs [12.25 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male Connector Crimp/Crimp Attachment for .100 inch, RG316, RG174, RG188, LMR-100, LMR-100, LMR-100-FR, PE-C100, PE-B100 PE45045](#)



BNC Male Connector Crimp/Crimp Attachment for .100 inch, RG316, RG174, RG188, LMR-100, LMR-100, LMR-100-FR, PE-C100, PE-B100

## RF Connectors Technical Data Sheet

PE45045

### Material Specifications

| Description  | Material        | Plating                        |
|--------------|-----------------|--------------------------------|
| Contact      | Brass           | Gold<br>50 $\mu$ in minimum    |
| Insulation   | PTFE            |                                |
| Body         | Brass           | Nickel<br>100 $\mu$ in minimum |
| Coupling Nut | Brass           | Nickel<br>100 $\mu$ in minimum |
| Gasket       | Silicone Rubber |                                |

### Environmental Specifications

#### Temperature

Operating Range

-65 to +165 deg C

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

### Plotted and Other Data

Notes:

### Assembly Instruction

BNC Male Connector Crimp/Crimp Attachment for .100 inch, RG316, RG174, RG188, LMR-100, LMR-100, LMR-100-FR, PE-C100, PE-B100 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.

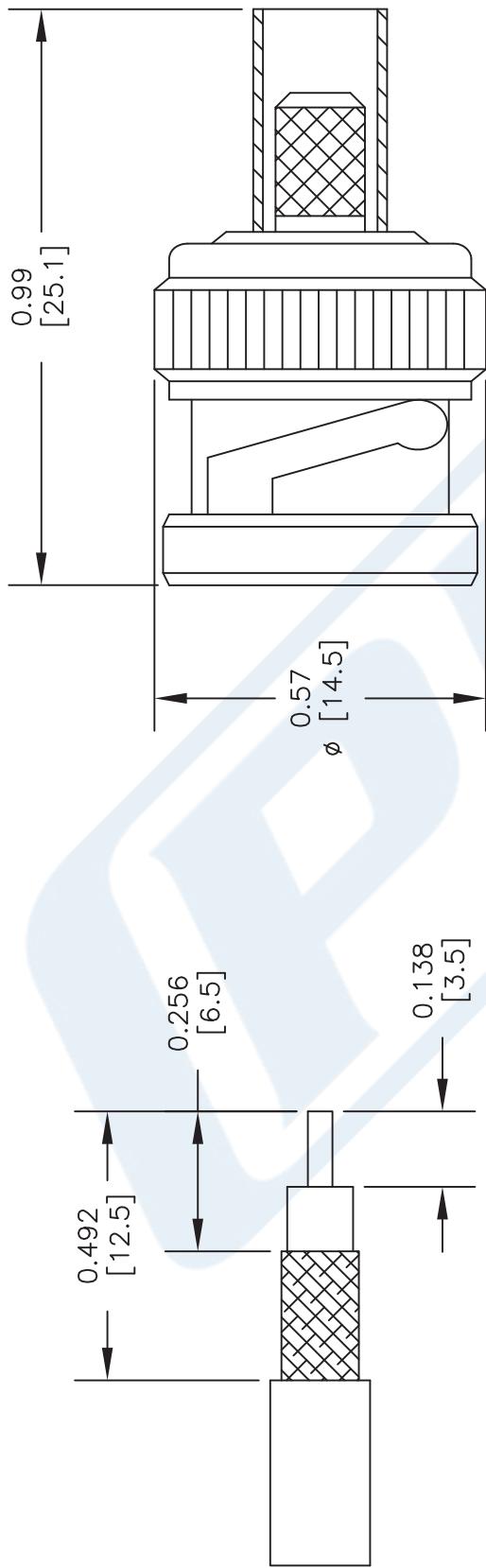
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male Connector Crimp/Crimp Attachment for .100 inch, RG316, RG174, RG188, LMR-100, LMR-100, LMR-100-FR, PE-C100, PE-B100 PE45045](#)

URL: <https://www.pasternack.com/bnc-male-.100-rg316-rg188-lmr-100-lmr-100-connector-pe45045-p.aspx>

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# PE45045 CAD Drawing

BNC Male Connector Crimp/Crimp Attachment for .100 inch, RG316, RG174,  
RG188, LMR-100, LMR-100, LMR-100-FR, PE-C100, PE-B100



NOTES:  
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
3. DIMENSIONS ARE IN INCHES [mm].  
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

| DWG TITLE | PE45045 | CAGE CODE | 53919 | CAD FILE | 021617 | SCALE | N/A | SIZE | A | 2233 |
|-----------|---------|-----------|-------|----------|--------|-------|-----|------|---|------|
|-----------|---------|-----------|-------|----------|--------|-------|-----|------|---|------|



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## Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket

### RF Cables Technical Data Sheet

**RG174A/U**

#### Times Microwave Systems Coax Cable Specification

##### Configuration

- Flexible Cable
- 1 Shield(s)

#### Electrical Specifications

| Description             | Minimum | Typical        | Maximum | Units        |
|-------------------------|---------|----------------|---------|--------------|
| Frequency Range         | DC      |                | 1,000   | MHz          |
| Impedance               |         | 50             |         | Ohms         |
| Velocity of Propagation |         | 66             |         | %            |
| Nominal Capacitance     |         | 31.08 [101.97] |         | pF/ft [pF/m] |

#### Performance by Frequency Band

| Description      | F1           | F2          | F3           | F4 | F5 | Units               |
|------------------|--------------|-------------|--------------|----|----|---------------------|
| Frequency        | 100          | 400         | 1,000        |    |    | MHz                 |
| Attenuation, Typ | 8.4<br>27.56 | 19<br>62.34 | 32<br>104.99 |    |    | dB/100ft<br>dB/100m |

#### Mechanical Specifications

|          |                          |
|----------|--------------------------|
| Diameter | 0.11 in [2.79 mm]        |
| Weight   | 0.008 lbs/ft [0.01 kg/m] |

#### Construction Specifications

| Description     | Material and Plating         | Diameter           |
|-----------------|------------------------------|--------------------|
| Inner Conductor | Copper Clad Steel, 7 Strands | 0.019 in [0.48 mm] |
| Conductor Type  | Stranded                     |                    |
| Dielectric      | PE                           | 0.06 in [1.52 mm]  |
| First Shield    | Tinned Copper Braid          | 0.078 in [1.98 mm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket RG174A/U](#)



## Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket

### RF Cables Technical Data Sheet

**RG174A/U**

|        |            |                   |
|--------|------------|-------------------|
| Jacket | PVC, Black | 0.11 in [2.79 mm] |
|--------|------------|-------------------|

#### Environmental Specifications

##### Temperature

Operating Range

-40 to +80 deg C

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

#### Plotted and Other Data

Notes:

Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket 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.

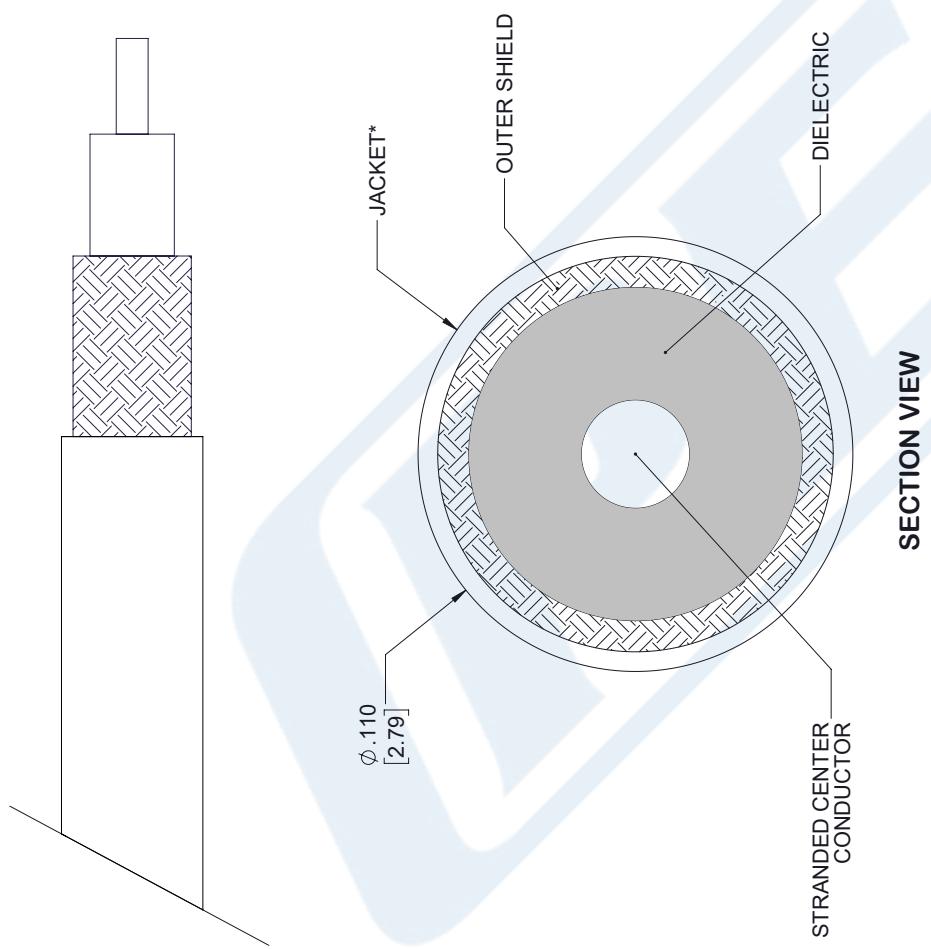
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket RG174A/U](#)

URL: <https://www.pasternack.com/flexible-0.100-rg174-50-ohm-coax-cable-pvc-jacket-rg174a-u-p.aspx>

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# RG174A/U CAD Drawing

Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket



| STANDARD TOLERANCES |             |
|---------------------|-------------|
| .X                  | $\pm 0.2$   |
| .XX                 | $\pm 0.01$  |
| .XXX                | $\pm 0.005$ |

NOTE:

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES

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DWG TITLE  
RG174A/U

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| CAGE CODE | 53919 | CAD FILE | 05/25/18 | SCALE N/A | SIZE A | 7361 |
|-----------|-------|----------|----------|-----------|--------|------|
|           |       |          |          |           |        |      |