



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

## RF Connectors Technical Data Sheet

PE45404A

### Configuration

- FAKRA Plug 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 PE45404A FAKRA plug 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 plug connector operates up to a maximum frequency of 4 GHz and offers good VSWR of 1.3:1.

Our FAKRA plug connector PE45404A 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) |         |         | 800     | Vrms  |
| Inner Conductor DC Resistance        |         |         | 6       | mOhms |
| Outer Conductor DC Resistance        |         |         | 2.5     | mOhms |
| Insulation Resistance                | 1,000   |         |         | MOhms |

### Mechanical Specifications

|             |                    |
|-------------|--------------------|
| <b>Size</b> |                    |
| Length      | 0.89 in [22.61 mm] |
| Width/Dia.  | 0.37 in [9.40 mm]  |
| Height      | 0.433 in [11 mm]   |
| Weight      | 0.005 lbs [2.27 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [FAKRA Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Black Color PE45404A](#)



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

## RF Connectors Technical Data Sheet

PE45404A

### 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:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [FAKRA Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Black Color PE45404A](#)

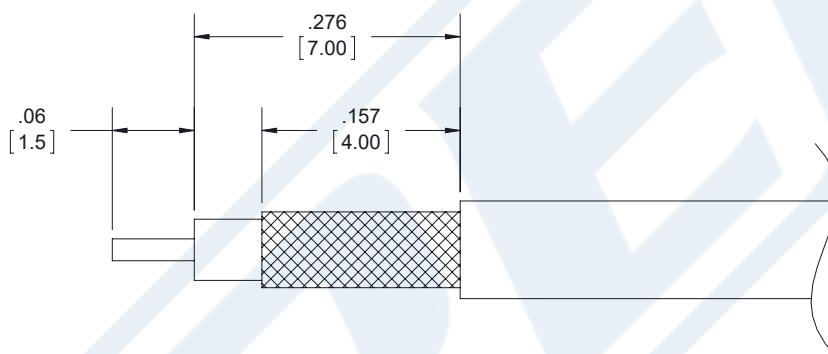


FAKRA Plug Connector Crimp/Solder Attachment  
for RG174, RG316, RG188, .100 inch, PE-  
B100, PE-C100, LMR-100, Black Color

RF Connectors  
Technical Data Sheet

PE45404A

Assembly Instruction



**ASSEMBLY PROCEDURES**

1. STRIP CABLE TO THE DIMENSIONS SHOWN, DO NOT NICK CENTER CONDUCTOR OR BRAID.
2. PUSH CENTER CONDUCTOR FULLY INTO CONTACT AND SOLDER, REMOVE ANY EXCESS SOLDER.
3. FLARE BRAID AND INSERT CONTACT INTO THE BODY UNTIL IT SEATS.
4. SLIDE FERRULE OVER BRAID AND CRIMP WITH CRIMP TOOL.

**CRIMP SIZE REQUIRED**

- CONTACT: SOLDER.
- FERRULE: .128 HEX CRIMP TOOL.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [FAKRA Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Black Color PE45404A](#)



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

RF Connectors  
Technical Data Sheet

PE45404A

FAKRA Plug 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.

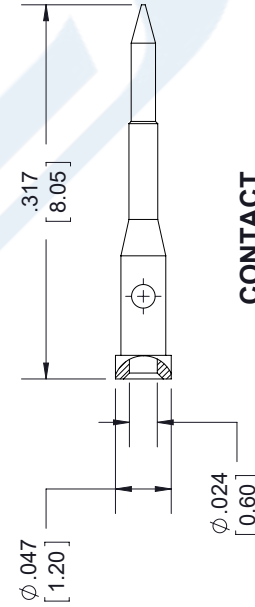
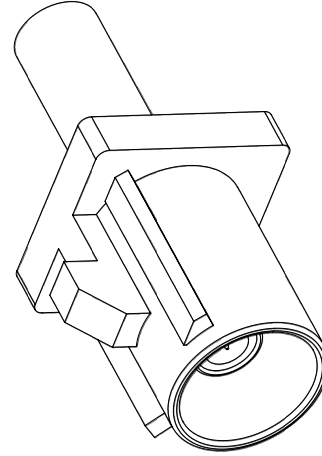
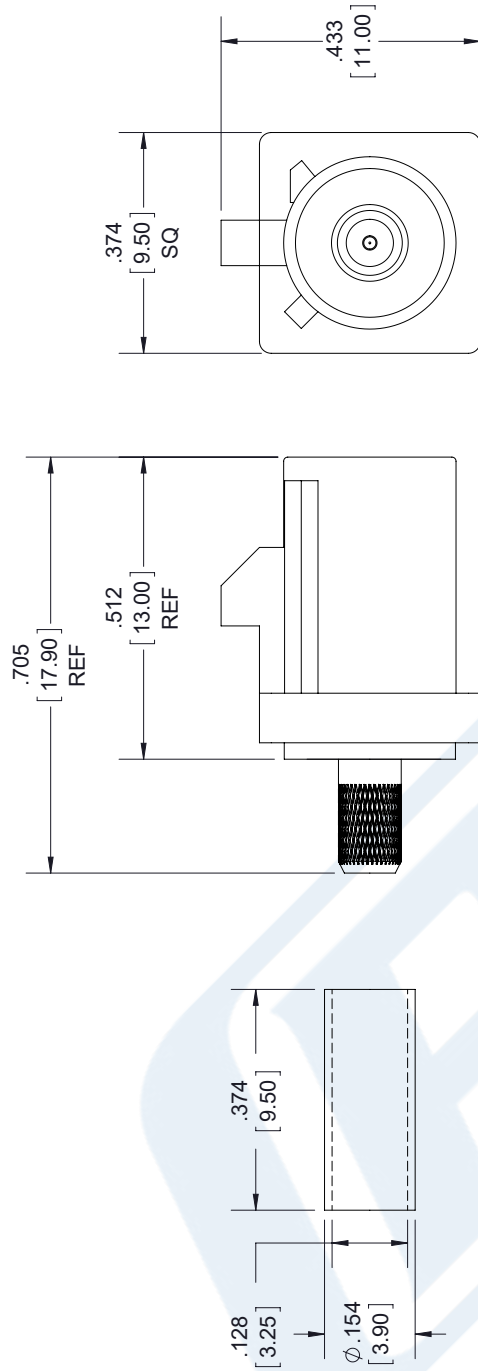
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [FAKRA Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Black Color PE45404A](https://www.pasternack.com/fakra-plug-rg174-rg316-100-pe-b100-pe-c100-connector-pe45404a-p.aspx)

URL: <https://www.pasternack.com/fakra-plug-rg174-rg316-100-pe-b100-pe-c100-connector-pe45404a-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.

# PE45404A CAD Drawing

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



**CONTACT**

## FAKRA CONFIGURATION

| 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                           |

## STANDARD TOLERANCES

.X ±0.2  
.XX ±0.01  
.XXX ±0.005

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



THE ENGINEER'S RF SOURCE

Pasternack Enterprises, Inc.

P.O. Box 16759 | Irvine | CA | 92623

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DWG TITLE

PE45404A

CAGE CODE 53919

CAD FILE 082917

SCALE N/A

SIZE A

9999

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].



RP MCX Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100

## RF Connectors Technical Data Sheet

PE44369

### Configuration

- MCX Plug Reverse Polarity Connector
- MIL-C-39012
- 50 Ohms
- Straight Body Geometry
- RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100 Interface Type
- Crimp/Solder Attachment

### Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.37:1
- Gold over Nickel Plated Beryllium Copper Contact
- 30  $\mu$ m minimum contact plating
- Reverse Polarity

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE44369 RP MCX plug connector with crimp/solder attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100 and LMR-100 is part of our full line of RF components available for same-day shipping. The plug reverse polarity configuration uses a plug connector body with an inner contact receptacle. Our MCX plug connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.37:1.

Our reverse polarity MCX plug connector PE44369 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      |         | 6       | GHz   |
| VSWR                                     |         |         | 1.37:1  |       |
| Operating Voltage (AC)                   |         |         | 335     | Vrms  |
| Dielectric Withstanding Voltage (AC)     |         |         | 1,000   | Vrms  |
| High Potential Voltage<br>at 4 and 7 MHz |         |         | 700     | Vrms  |
| Corona Discharge<br>at 70,000 feet       |         |         | 250     | Vrms  |
| Insulation Resistance                    | 10,000  |         |         | MOhms |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RP MCX Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100 PE44369](#)



RP MCX Plug Connector Crimp/Solder Attachment for RG174,  
RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100

## RF Connectors Technical Data Sheet

PE44369

### Performance by Frequency

| Description         | F1      | F2 | F3 | F4 | F5 | Units |
|---------------------|---------|----|----|----|----|-------|
| Frequency Range     | DC to 1 |    |    |    |    | GHz   |
| Insertion Loss, Max | 0.1     |    |    |    |    | dB    |

Electrical Specification Notes:  
RF leakage: 55 dB at 2.5 GHz.

### Mechanical Specifications

#### Size

|               |                     |
|---------------|---------------------|
| Length        | 0.598 in [15.19 mm] |
| Width/Dia.    | 0.196 in [4.98 mm]  |
| Weight        | 0.008 lbs [3.63 g]  |
| Mating Cycles | 500 Cycles          |

### Material Specifications

| Description | Material         | Plating                            |
|-------------|------------------|------------------------------------|
| Contact     | Beryllium Copper | Gold over Nickel<br>30 µin minimum |
| Insulation  | PTFE             |                                    |
| Body        | Brass            | Gold over Nickel<br>10 µin minimum |

### Environmental Specifications

#### Temperature

|                 |                                      |
|-----------------|--------------------------------------|
| Operating Range | -65 to +165 deg C                    |
| Humidity        | MIL-STD-202, Method 106              |
| Shock           | MIL-STD-202, Method 213, Condition B |
| Vibration       | MIL-STD-202, Method 204, Condition B |
| Thermal Shock   | MIL-STD-202, Method 107, Condition F |
| Salt Spray      | MIL-STD-202, Method 101, Condition B |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RP MCX Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100 PE44369](#)



RP MCX Plug Connector Crimp/Solder Attachment for RG174,  
RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100

## RF Connectors Technical Data Sheet

PE44369

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

### Plotted and Other Data

Notes:

RP MCX Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

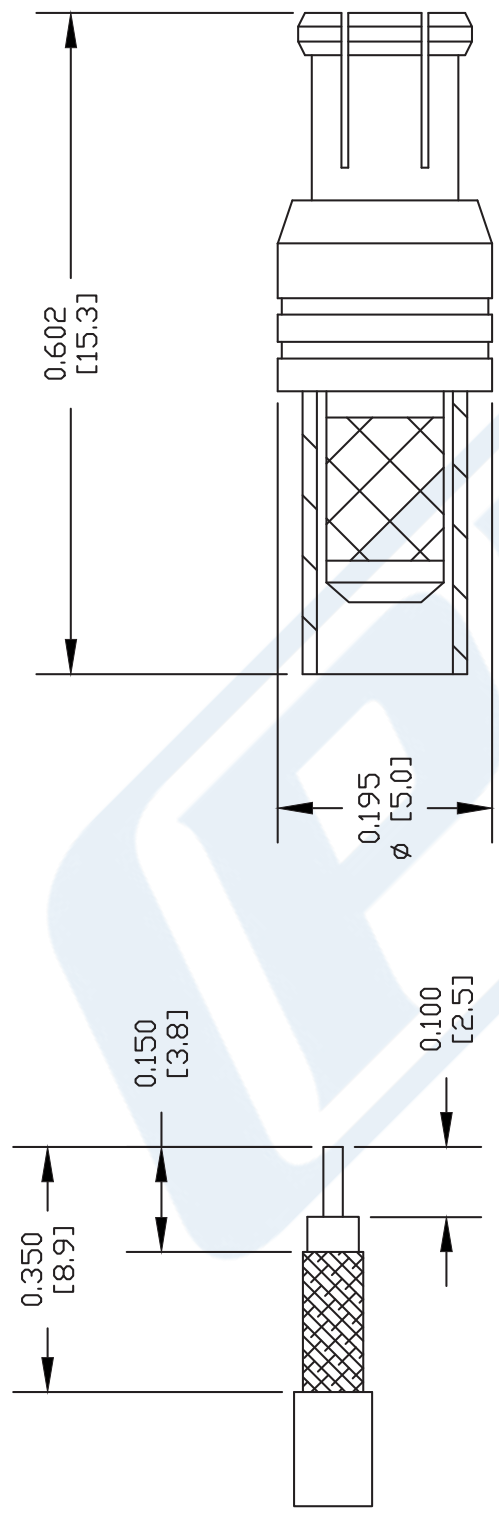
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RP MCX Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100 PE44369](#)

URL: <https://www.pasternack.com/mcx-plug-reverse-polarity-rg174-rg316-rg188-connector-pe44369-p.aspx>

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PE44369 CAD Drawing

RP MCX Plug Connector Crimp/Solder Attachment for RG174,  
RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100



STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: SOLDER  
FERRULE: .128" HEX CRIMP TOOL

**PE PASTERNAK®**  
Pasternack Enterprises, Inc.  
P.O. Box 16759 | Irvine | CA | 92623  
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Website: [www.pasternack.com](http://www.pasternack.com) | E-Mail: [sales@pasternack.com](mailto:sales@pasternack.com)

DWG TITLE  
**PE44369**

FSCM NO. 53919

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.

CAD FILE 071403 SCALE N/A SIZE A 127



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

### RF Cables Technical Data Sheet

### 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] |
| Power@ 1GHz             |         |                | 17      | Watts        |

### Performance by Frequency Band

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

### Mechanical Specifications

|          |                          |
|----------|--------------------------|
| Diameter | 0.11 in [2.79 mm]        |
| Weight   | 0.009 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**

|        |            |                   |
|--------|------------|-------------------|
| 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**

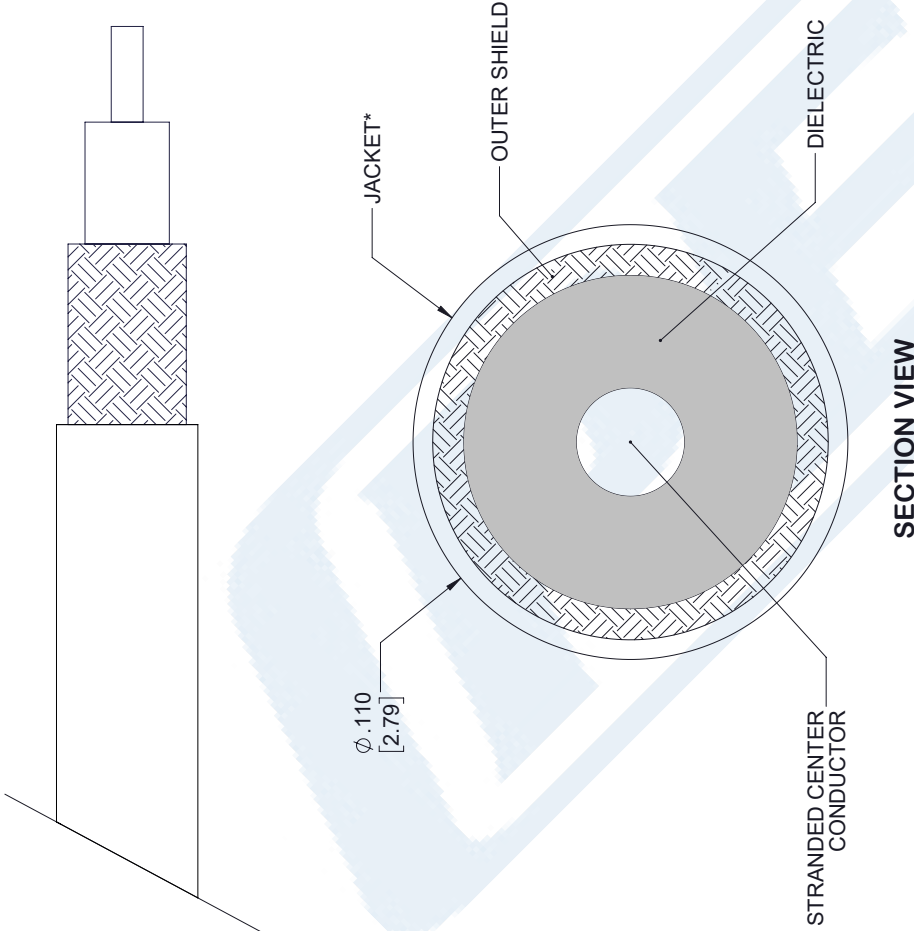
Notes:

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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NOTE:

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

| STANDARD | TOLERANCES |
|----------|------------|
| .X       | ±0.2       |
| .XX      | ±0.01      |
| .XXX     | ±0.005     |

|                                                            |  |                                      |  |                                                                        |  |
|------------------------------------------------------------|--|--------------------------------------|--|------------------------------------------------------------------------|--|
| DWG TITLE                                                  |  | RG174A/U                             |  | NOTES:                                                                 |  |
| CAGE CODE                                                  |  | 53919                                |  | 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.              |  |
| PASTERNACK®                                                |  | THE ENGINEER'S RF SOURCE             |  | 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME |  |
| Pasternack Enterprises, Inc.                               |  | P.O. Box 16759   Irvine   CA   92623 |  | 3. DIMENSIONS ARE IN INCHES [mm].                                      |  |
| Phone: (949) 261-1920   Fax: (949) 261-7451                |  | CAD FILE                             |  | SCALE                                                                  |  |
| Website: www.pasternack.com   E-Mail: sales@pasternack.com |  | 05/25/18                             |  | N/A                                                                    |  |
|                                                            |  |                                      |  | SIZE                                                                   |  |
|                                                            |  |                                      |  | A                                                                      |  |
|                                                            |  |                                      |  | 7361                                                                   |  |