

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



## RF Connectors Technical Data Sheet

PE44648I

### Configuration

- FAKRA Jack Connector
- 50 Ohms
- Right Angle Body Geometry

- Connector Interface Types: RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100

### Features

- Max. Operating Frequency 4 GHz
- Good VSWR of 1.5:1
- Gold Plated Phosphor Bronze Contact

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE44648I FAKRA jack right angle 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 1.5:1. Its right angle body geometry allows for easier connections in tight spaces.

Our FAKRA jack right angle connector PE44648I 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                                 |         |         | 1.5:1   |       |
| 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     | 0.878 in [22.3 mm] |
| Width/Dia. | 0.37 in [9.40 mm]  |
| Weight     | 0.015 lbs [6.8 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 Right Angle Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Beige Color PE44648I](#)

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## RF Connectors Technical Data Sheet

PE44648I

### Material Specifications

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

### Environmental Specifications

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

### Plotted and Other Data

Notes:

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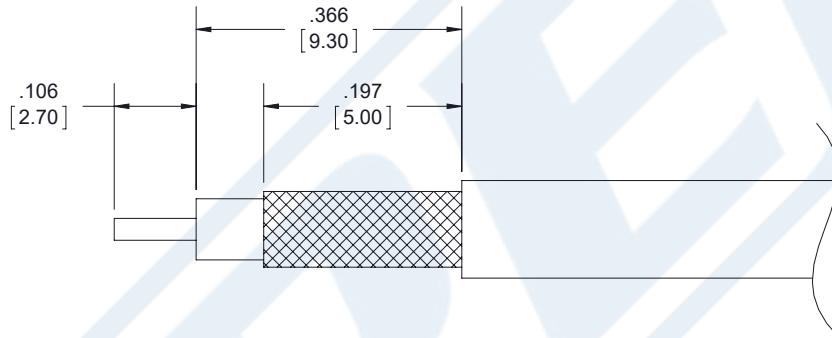
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RF Connectors  
Technical Data Sheet

PE44648I

**Assembly Instruction**



**ASSEMBLY PROCEDURES**

1. STRIP CABLE TO THE DIMENSIONS SHOWN AND SLIDE FERRULE OVER CABLE.
2. INSTALL CABLE INTO BODY OF CONNECTOR AND SOFT SOLDER CENTER CONDUCTOR IN PLACE.
3. CRIMP FERRULE AND PRESS CAP DOWN.

**CRIMP SIZE REQUIRED**

- FERRULE: .128 [3.25] HEX CRIMP TOOL.

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## RF Connectors Technical Data Sheet

PE44648I

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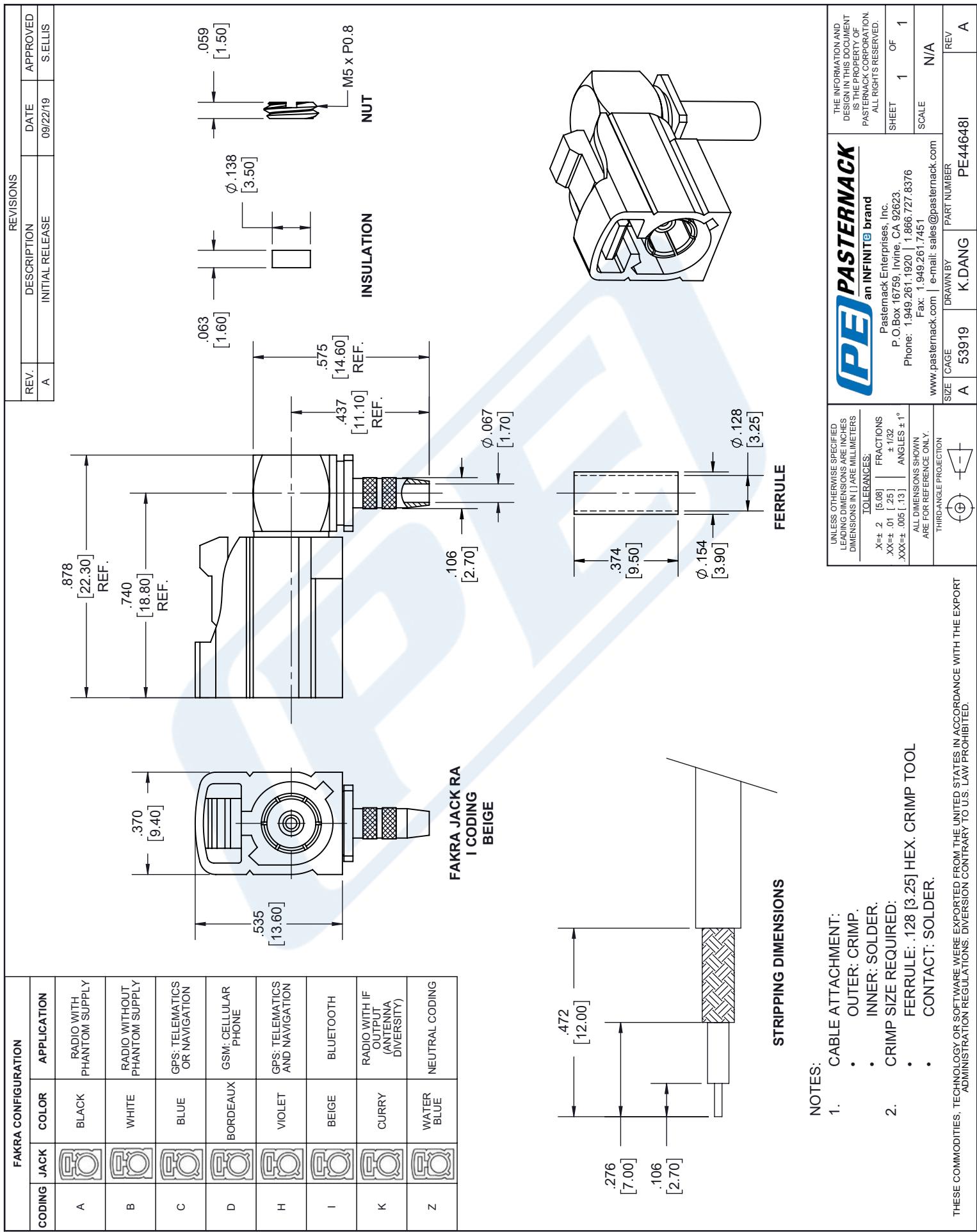
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URL: <https://www.pasternack.com/fakra-jack-standard-pe-c100-rg174-rg316-connector-pe44648i-p.aspx>

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# PE44648I CAD Drawing

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



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



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## RF Connectors Technical Data Sheet

PE44648I

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| Insulation      | PTFE            |         |
| Outer Conductor | Brass           | Nickel  |
| Body            | Plastic         |         |

### Environmental Specifications

**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 Jack Right Angle Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Beige Color PE44648I](#)

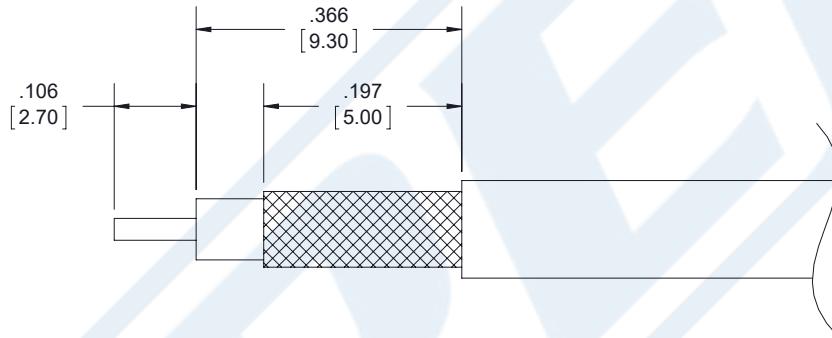
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RF Connectors  
Technical Data Sheet

PE44648I

**Assembly Instruction**



**ASSEMBLY PROCEDURES**

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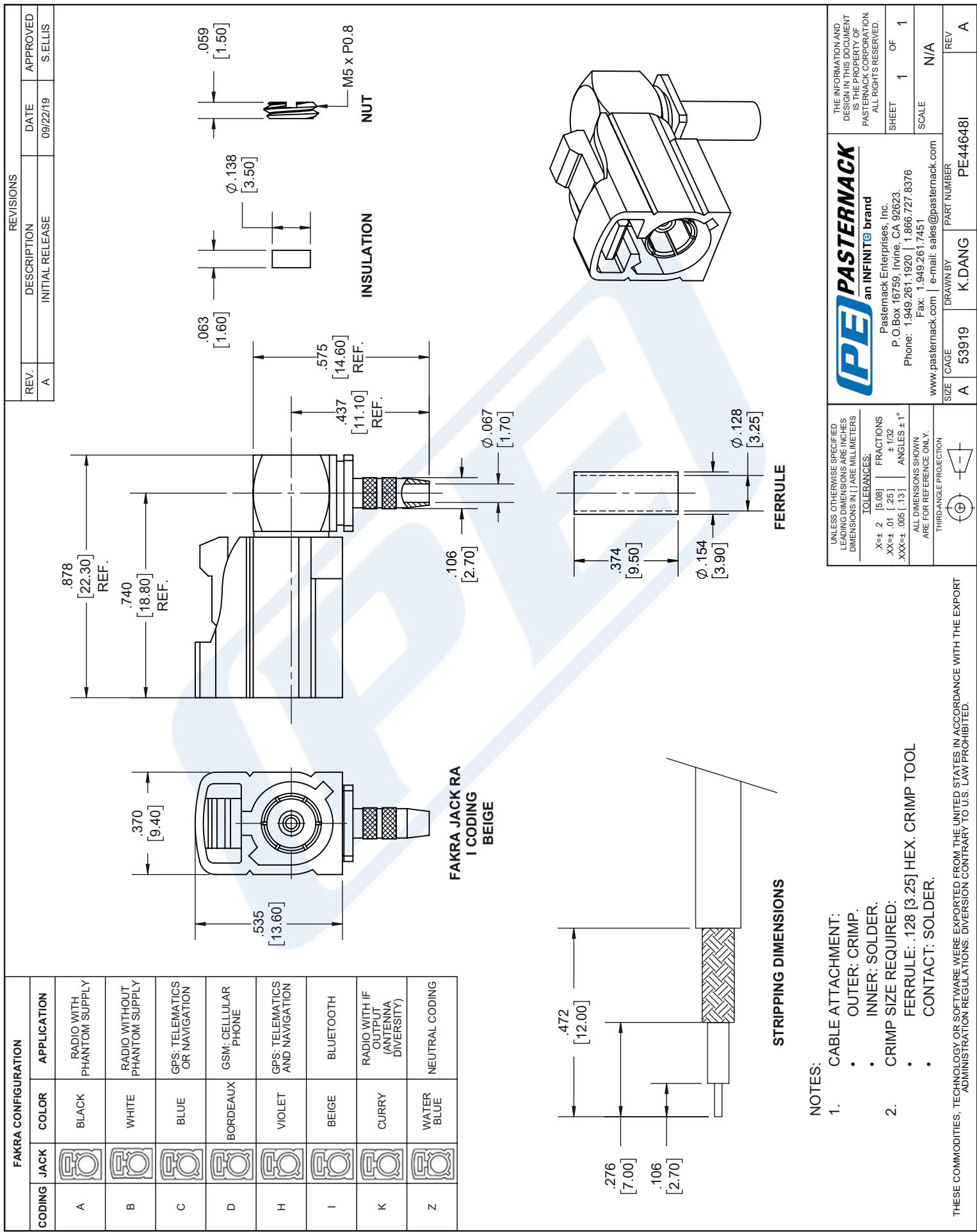
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URL: <https://www.pasternack.com/fakra-jack-standard-pe-c100-rg174-rg316-connector-pe44648i-p.aspx>

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# PE44648I CAD Drawing

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RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Beige Color



|   |       |   |             |
|---|-------|---|-------------|
| <br>an <b>INFINITE</b> brand |       | THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNACK CORPORATION. ALL RIGHTS RESERVED.   |             |
|   |       | 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>e-mail: sales@pasternack.com |             |
| SCALE   | N/A   | SHEET   | 1 OF 1      |
| SIZE  | CAGE  | DRAWN BY  | PART NUMBER |
| A   | 53919 | K.DANG  | PE44648I    |
| REV   | A     |   |             |



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

### RF Cables Technical Data Sheet


**TM** **TIMES** An Amphenol Company
**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] |
| 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<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   | 0.009 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

**T**  
**TIMES**  
Microwave Systems  
An Amphenol Company**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

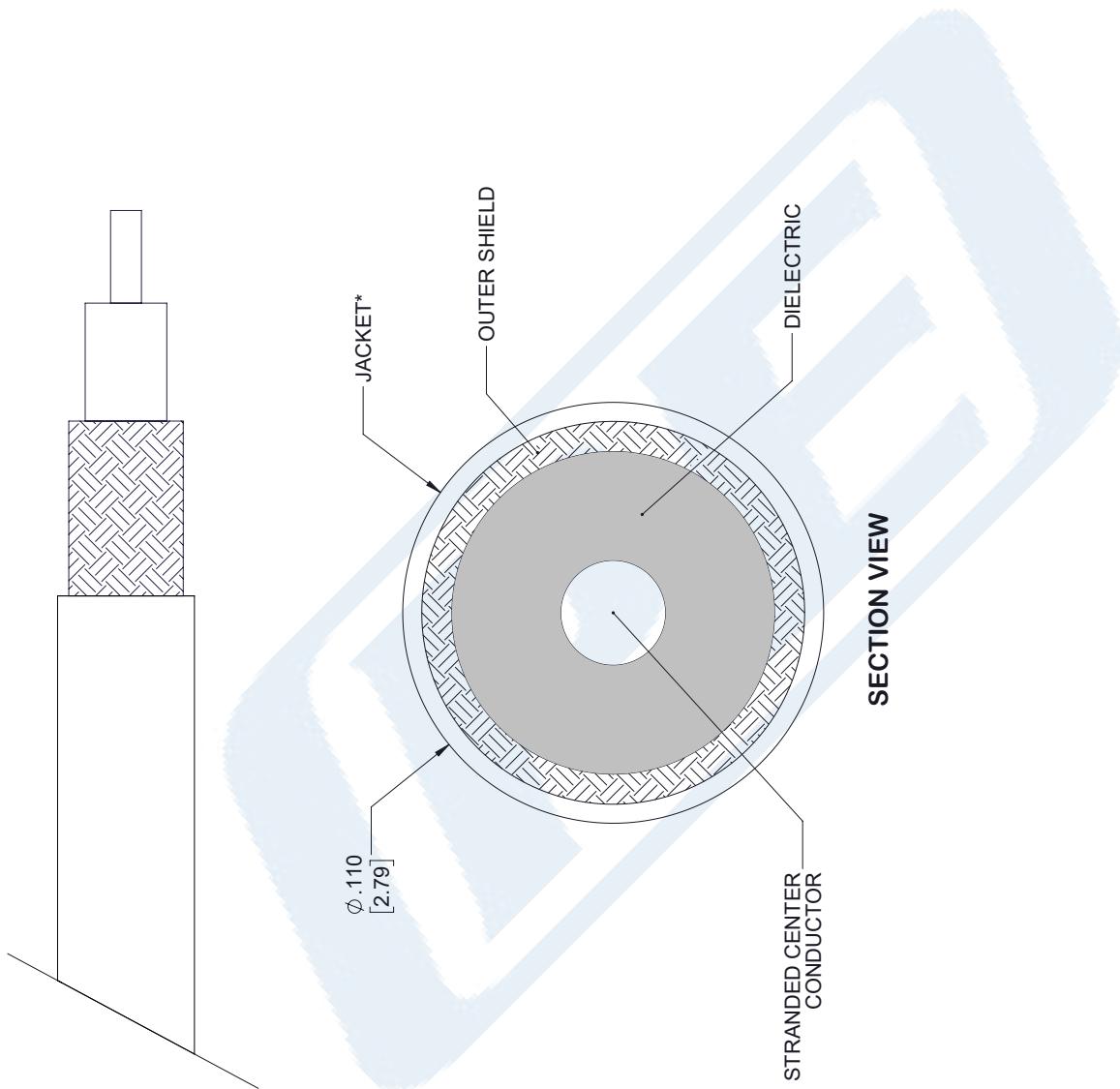
Notes:

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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| 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].                                       |          |           |       |
| DWG TITLE   | RG174A/U | CAGE CODE | 53919 |
| CAD FILE  | 05/25/18 | SCALE     | N/A   |
| SIZE  | A        |           | 7361  |

**PASTERNACK**  
 THE ENGINEER'S RESOURCE  
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