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# SMA Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100

RF Connectors
Technical Data Sheet

PE4414

## Configuration

- SMA Female Connector
- MIL-STD-348
- 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 18 GHz
- Good VSWR of 1.5:1
- Gold Plated Beryllium Copper Contact

## Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE4414 SMA female 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 SMA female connector operates up to a maximum frequency of 18 GHz and offers good VSWR of 1.5:1.

Our SMA female connector PE4414 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 | | 18 | GHz |
| VSWR | | | 1.5:1 | |
| Operating Voltage (AC) | | | 250 | Vrms |
| Dielectric Withstanding Voltage (AC) | | | 750 | Vrms |

### Mechanical Specifications

**Size**

| | |
|---|---|
| Length | 0.81 in [20.57 mm] |
| Width/Dia. | 0.312 in [7.92 mm] |
| Weight | 0.007 lbs [3.18 g] |
| Mating Cycles | 100 Cycles |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100 PE4414

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# SMA Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100



## Material Specifications

| Description | Material | Plating |
|---|---|---|
| Contact | Beryllium Copper | Gold |
| Insulation | PTFE | |
| Outer Conductor | Brass | Nickel |
| Body | Brass | Nickel |

## Environmental Specifications

**Temperature**

| | |
|---|---|
| Operating Range | -65 to +165 deg C |

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

## Plotted and Other Data

Notes:

SMA Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, .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 99.4% 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: SMA Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100 PE4414

URL: https://www.pasternack.com/sma-female-rg174-rg316-.100-pe-b100-pe-c100-connector-pe4414-p.aspx

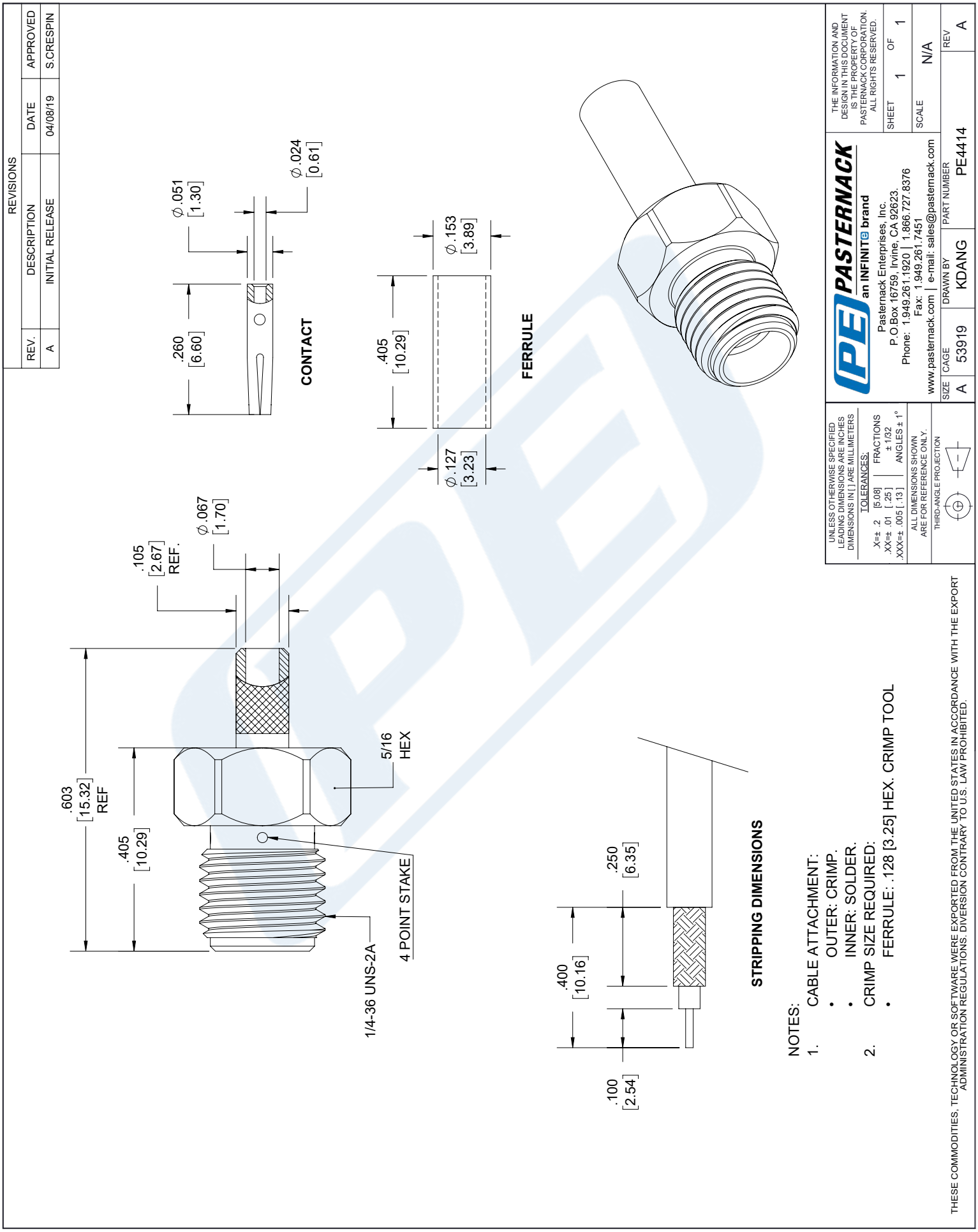
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# PE4414 CAD Drawing

SMA Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100




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PASTERNACK®
THE ENGINEER'S RF SOURCE



# D-Sub Receptacle Contact Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100

## RF Connectors Technical Data Sheet PE4801

## Configuration

- D-Sub Receptacle Connector
- 50 Ohms
- Straight Body Geometry
- RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100 Interface Type
- Crimp/Solder Attachment

## Features

- Gold Plated Contact

## Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE4801 D-Sub receptacle contact 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.

Our D-Sub receptacle connector PE4801 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.

### Mechanical Specifications

**Size**

| | |
|---|---|
| Length | 0.94 in [23.88 mm] |
| Width/Dia. | 0.22 in [5.59 mm] |
| Weight | 0.005 lbs [2.27 g] |

**Material Specifications**

| Description | Material | Plating |
|---|---|---|
| Contact | | Gold |
| Insulation | PTFE | |
| Body | Brass | Gold |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: D-Sub Receptacle Contact Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100 PE4801

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# D-Sub Receptacle Contact Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100



**Compliance Certifications** (see product page for current document)

**Plotted and Other Data**

Notes:

D-Sub Receptacle Contact 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: D-Sub Receptacle Contact Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100 PE4801

URL: https://www.pasternack.com/d-sub-receptacle-standard-rg174-rg316-rg187-rg188-connector-pe4801-p.aspx

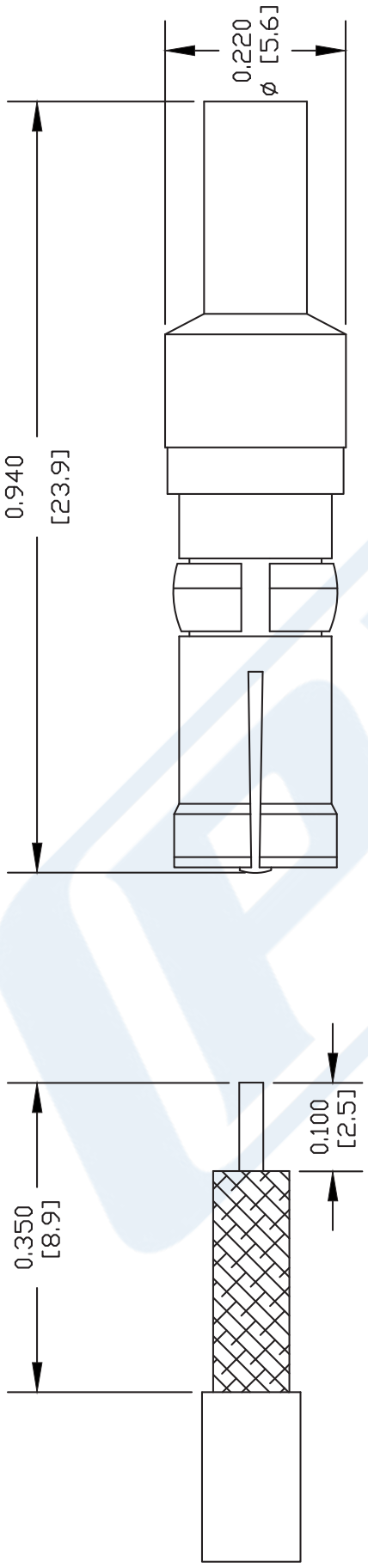
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# PE4801 CAD Drawing

D-Sub Receptacle Contact Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100




STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. SLIDE FERRULE ONTO CABLE STRIP CABLE AS SHOWN & TIN CENTER CONDUCTOR.
2. INSERT DIELECTRIC AND CENTER CONDUCTOR INTO BODY. SOLDER CENTER CONDUCTOR THROUGH HOLE IN BODY. REMOVE EXCESS SOLDER. SLIDE FERRULE FORWARD & CRIMP.

CRIMP SIZE REQUIRED

FERRULE: .128" HEX CRIMP TOOL

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 | CAD FILE | SCALE | SIZE |
|---|---|---|---|
| PE4801 | 060702 | N/A | A |

FSCM NO. 53919

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# Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket

**RF Cables**
**Technical Data Sheet**

TIMES MICROWAVE SYSTEMS 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 | 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

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# Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket



| | | |
|---|---|---|
| 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

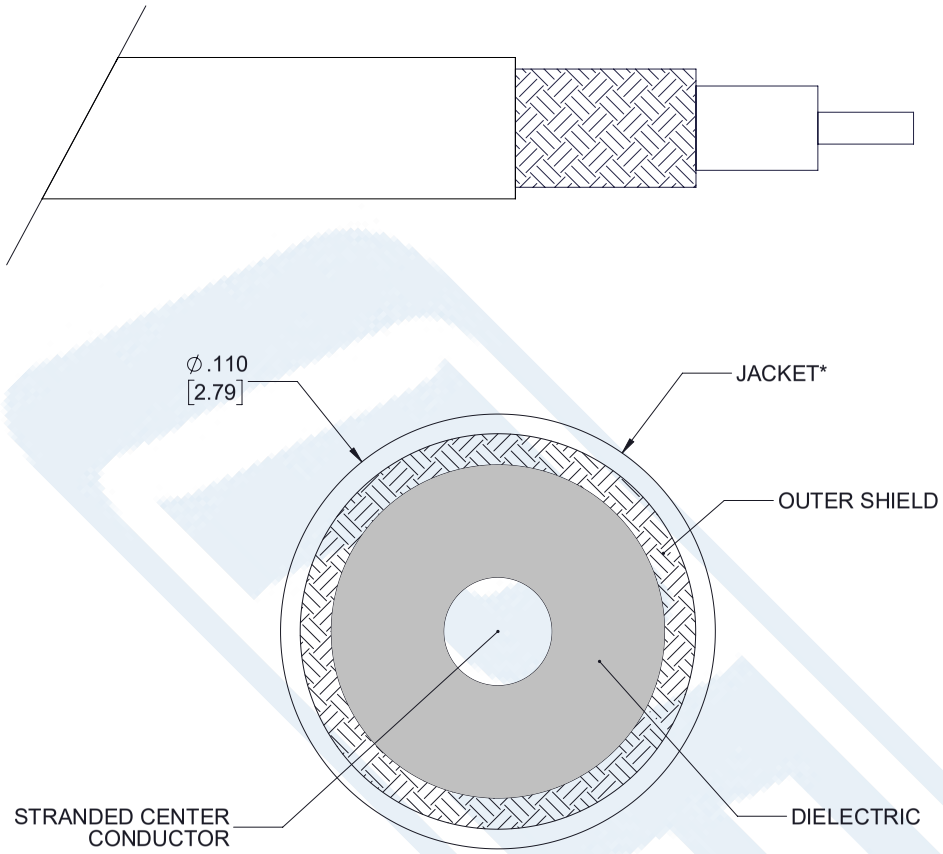
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**SECTION VIEW**

NOTE:

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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

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DWG TITLE

RG174A/U

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

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

TIMES MICROWAVE SYSTEMS
An Amphenol Company

# RG174A/U CAD Drawing

Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket