



SMA Male Connector Crimp/Solder Attachment
for RG174, RG316, RG188 Gold Plated

RF Connectors Technical Data Sheet

PE45145

Configuration

- SMA Male Connector
- 50 Ohms
- Straight Body Geometry
- RG174, RG316, RG188 Interface Type
- Crimp/Solder Attachment
- 5/16 in Hex

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | DC | | 12.4 | GHz |

Mechanical Specifications

| | |
|---------------|---------------------|
| Size | |
| Length | 0.654 in [16.61 mm] |
| Weight | 0.01 lbs [4.54 g] |
| Mating Torque | 5 in-lbs [0.57 Nm] |

Material Specifications

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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Crimp/Solder Attachment for RG174, RG316, RG188 Gold Plated PE45145](#)



SMA Male Connector Crimp/Solder Attachment for RG174, RG316, RG188 Gold Plated

RF Connectors Technical Data Sheet

PE45145

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

Plotted and Other Data

Notes:

SMA Male Connector Crimp/Solder Attachment for RG174, RG316, RG188 Gold Plated 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.

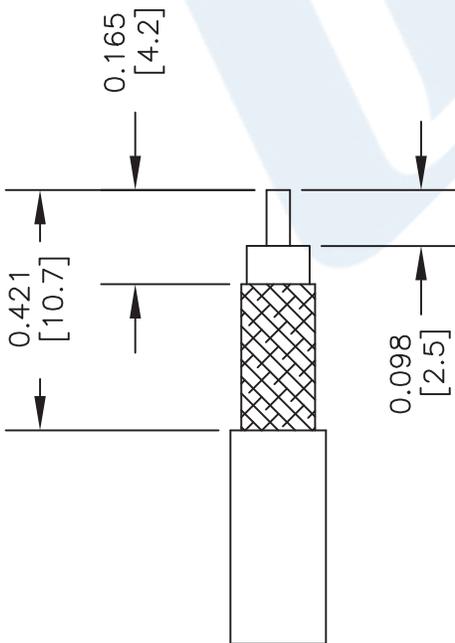
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Crimp/Solder Attachment for RG174, RG316, RG188 Gold Plated PE45145](#)

URL: <https://www.pasternack.com/sma-male-rg174-rg316-rg188-connector-pe45145-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.

PE45145 CAD Drawing

SMA Male Connector Crimp/Solder Attachment for RG174, RG316, RG188 Gold Plated

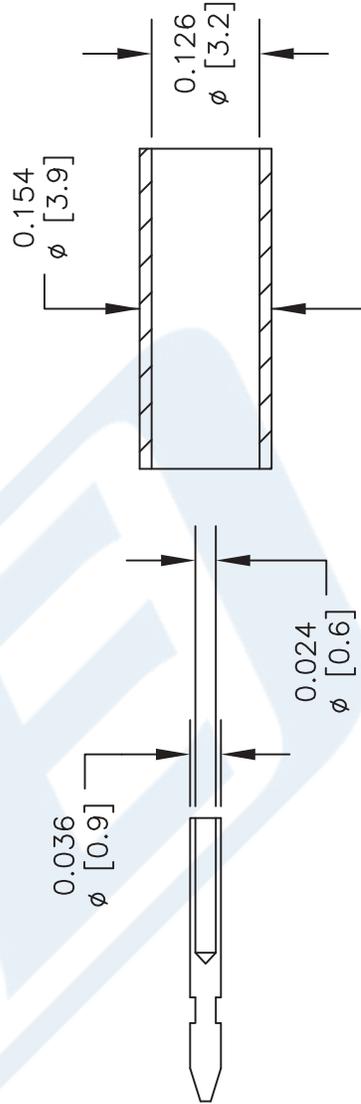
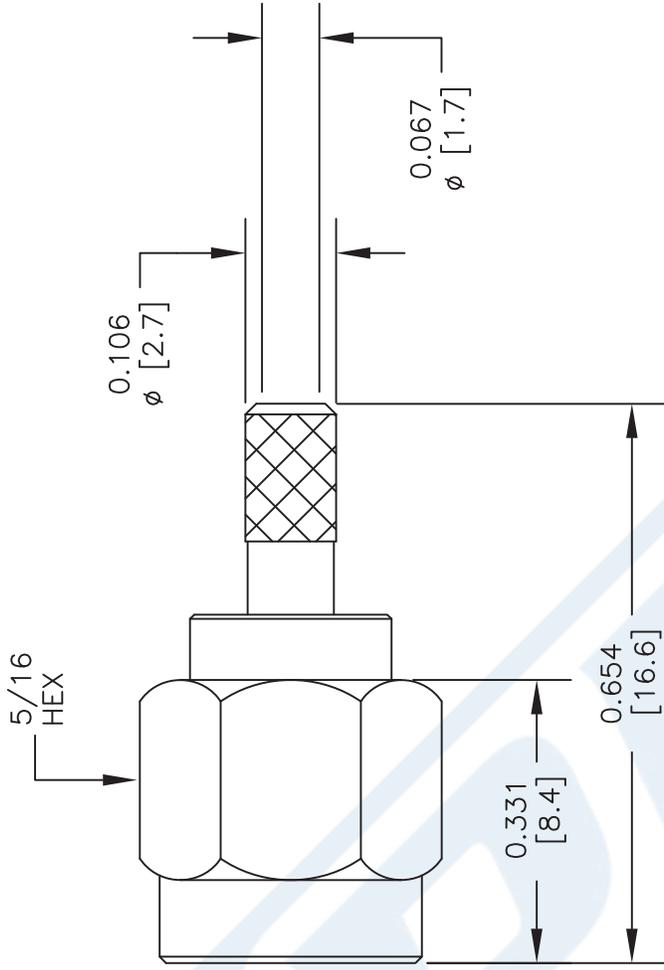


STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: SOLDER

FERRULE: .128" HEX CRIMP TOOL



CONTACT

FERRULE

DWG TITLE

PE45145

- 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.

(PE) PASTERNAK®
 THE ENGINEER'S RF SOURCE
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FSCM NO. 53919

CAD FILE 012815

SCALE N/A

SIZE A

150



SSMC Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188

RF Connectors Technical Data Sheet

PE45209

Configuration

- SSMC Plug Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG316, RG174, RG188
- 5/32 inch Hex

Features

- Max. Operating Frequency 12.4 GHz
- Good VSWR of 1.5:1
- Gold Plated Beryllium Copper Contact

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE45209 SSMC plug connector with crimp/solder attachment for RG316, RG174 and RG188 is part of our full line of RF components available for same-day shipping. Our SSMC plug connector operates up to a maximum frequency of 12.4 GHz and offers good VSWR of 1.5:1.

Our SSMC plug connector PE45209 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 | | 12.4 | GHz |
| VSWR | | | 1.5:1 | |
| Insulation Resistance | 1,000 | | | MOhms |

Mechanical Specifications

Size

| | |
|---------------|--------------------|
| Length | 0.94 in [23.88 mm] |
| Width/Dia. | 0.156 in [3.96 mm] |
| Weight | 0.0033 lbs [1.5 g] |
| Mating Cycles | 500 Cycles |
| Mating Torque | 1 in-lbs [0.11 Nm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMC Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188 PE45209](#)



SSMC Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188

RF Connectors Technical Data Sheet

PE45209

Material Specifications

| Description | Material | Plating |
|--------------|------------------|---------|
| Contact | Beryllium Copper | Gold |
| Insulation | PTFE | |
| Body | Beryllium Copper | Gold |
| Coupling Nut | Beryllium Copper | Gold |

Environmental Specifications

Temperature

Operating Range -45 to +120 deg C

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

Plotted and Other Data

Notes:

SSMC Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188 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: [SSMC Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188 PE45209](#)

URL: <https://www.pasternack.com/ssmc-male-rg316-rg174-rg188-connector-pe45209-p.aspx>

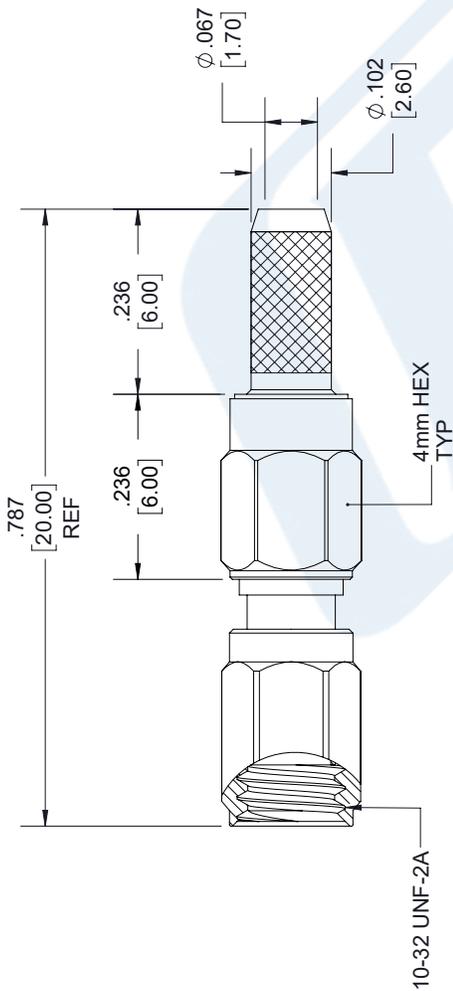
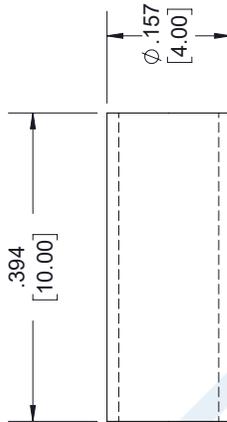
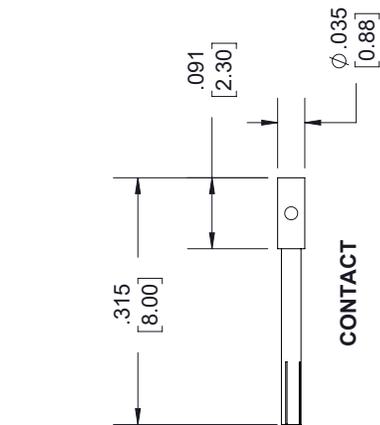
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PE45209 CAD Drawing

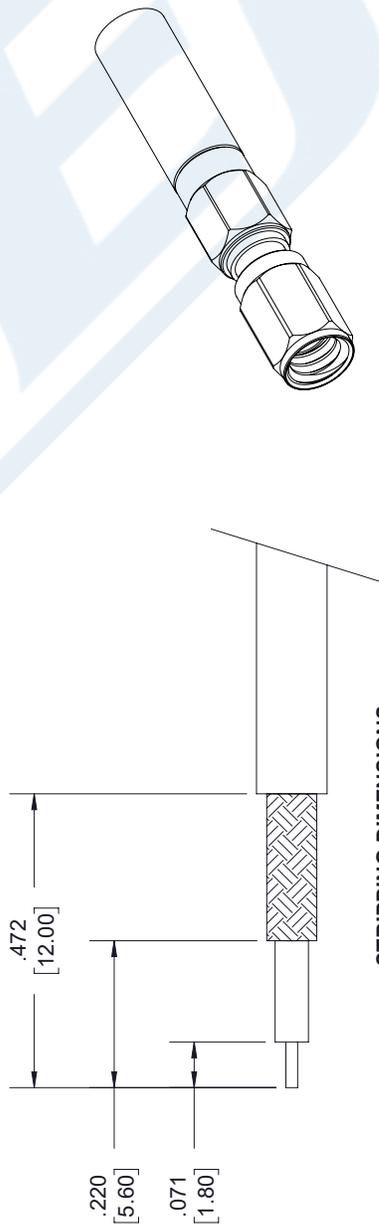
SSMC Plug Connector Crimp/Solder Attachment for RG316, RG174, RG188

| REV. | DESCRIPTION | DATE | APPROVED |
|------|---------------------|----------|----------|
| A | PCR PE45209 2011127 | 12/13/19 | S.ELLIS |

REVISIONS



SSMC PLUG



STRIPPING DIMENSIONS

NOTES:

- CABLE ATTACHMENT:
 - OUTER: CRIMP.
 - INNER: SOLDER.
- CRIMP SIZE REQUIRED:
 - FERRULE: .134 [3.40] HEX. CRIMP TOOL.
 - CONTACT: SOLDER.

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

.X = ± .2 [5.08] FRACTIONS ± 1/32
 .XX = ± .02 [.51] ANGLES ± 1°
 .XXX = ± .005 [.13] CABLE LENGTH (L) TOLERANCES:
 L ≤ 12 [305] = +1 [25] / -0
 12 [305] < L ≤ 60 [1524] = +2 [51] / -0
 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
 300 [7620] < L = +5% / L / -0
 ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.



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SHEET 1 OF 1
 SCALE N/A
 REV A



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 E-mail: sales@pasternack.com

| SIZE | CAGE CODE | DRAWN BY | ITEM NO. | REV |
|------|-----------|----------|----------|-----|
| A | 53919 | K.DANG | PE45209 | A |

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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] |

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 dB/100m |
| | 27.56 | 62.34 | 104.99 | | | |

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

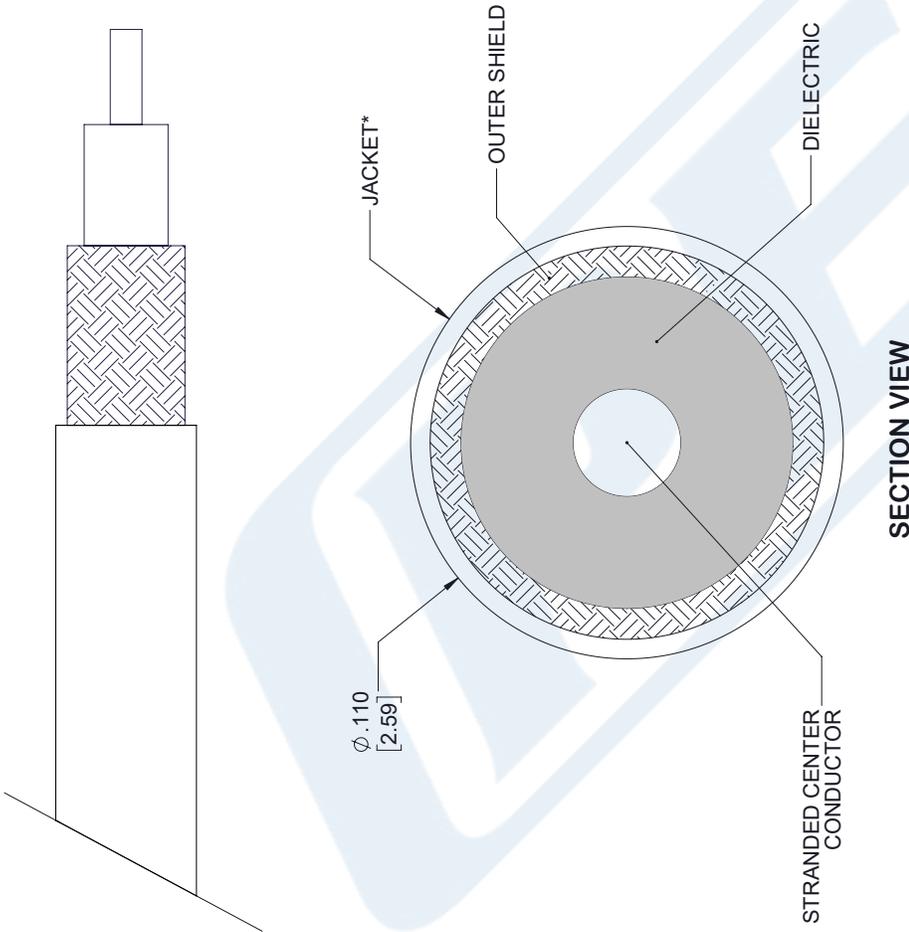
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Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG174 Coax Cable Single Shielded with Black PVC Jacket RG174A/U](#)

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 |



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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