



## SMP Female Right Angle Push-On Connector Crimp/ Solder Attachment for RG316, RG174, LMR-100

### RF Connectors Technical Data Sheet

PE45128

#### Configuration

- Push-On SMP Female Connector
- MIL-STD-348A
- 50 Ohms
- Right Angle Body Geometry
- RG316, RG174, LMR-100 Interface Type
- Crimp/Solder Attachment

#### Electrical Specifications

| Description            | Minimum | Typical | Maximum | Units |
|------------------------|---------|---------|---------|-------|
| Frequency Range        | DC      |         | 3       | GHz   |
| VSWR                   |         |         | 1.3:1   |       |
| Operating Voltage (AC) |         |         | 350     | Vrms  |

#### Mechanical Specifications

##### Size

|            |                      |
|------------|----------------------|
| Length     | 0.295 in [7.49 mm]   |
| Width/Dia. | 0.157 in [3.99 mm]   |
| Height     | 0.311 in [7.9 mm]    |
| Weight     | 0.00736 lbs [3.34 g] |

#### Material Specifications

| Description     | Material         | Plating                 |
|-----------------|------------------|-------------------------|
| Contact         | Beryllium Copper | Gold<br>30μ in. minimum |
| Insulation      | Teflon           |                         |
| Outer Conductor | Beryllium Copper | Gold<br>3μ in. minimum  |
| Body            | Brass            | Gold<br>3μ in. minimum  |

#### Environmental Specifications

##### Temperature

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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMP Female Right Angle Push-On Connector Crimp/Solder Attachment for RG316, RG174, LMR-100 PE45128](#)



## SMP Female Right Angle Push-On Connector Crimp/ Solder Attachment for RG316, RG174, LMR-100

### RF Connectors Technical Data Sheet

PE45128

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

#### Plotted and Other Data

Notes:

SMP Female Right Angle Push-On Connector Crimp/Solder Attachment for RG316, RG174, 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.

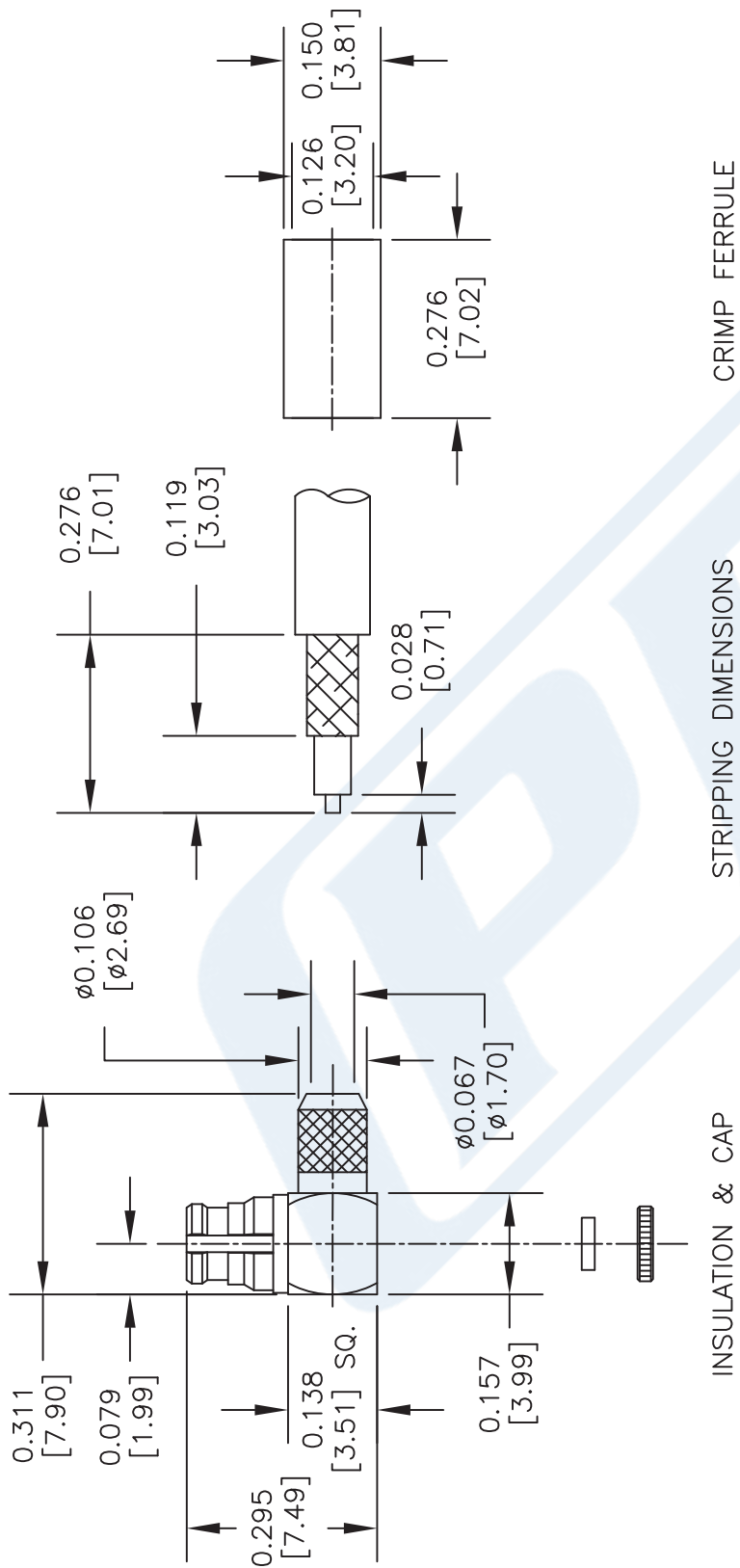
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMP Female Right Angle Push-On Connector Crimp/Solder Attachment for RG316, RG174, LMR-100 PE45128](#)

URL: <https://www.pasternack.com/smp-female-push-on-rg316-rg174-lmr-100-connector-pe45128-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.

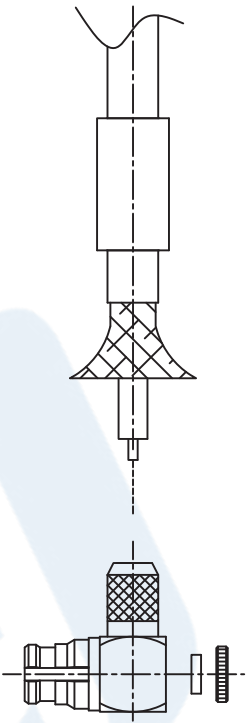
# PE45128 CAD Drawing

SMP Female Right Angle Push-On Connector Crimp/  
Solder Attachment for RG316, RG174, LMR-100



## ASSEMBLY PROCEDURES

1. STRIP THE CABLE TO THE DIMENSIONS SHOWN, DO NOT NICK CENTER CONDUCTOR OR BRAID.
2. SLIDE FERRULE ONTO THE CABLE.
3. FLARE THE BRAID, INSERT THE CONTACT AND SOLDER TO INTERNAL CONTACT.
4. SLIDE FERRULE OVER BRAID AND CRIMP WITH .130" [3.3] HEX. CRIMP TOOL.
5. INSERT THE INSULATION AND THE CAP.



DWG TITLE

**PE45128**

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].

**PE PASTERNAK**  
THE ENGINEER'S RF SOURCE

Pasternack Enterprises, Inc.  
P.O. Box 16759 | Irvine | CA | 92623  
Phone: (949) 261-1920 | Fax: (949) 261-7451  
Website: [www.pasternack.com](http://www.pasternack.com) | E-Mail: [sales@pasternack.com](mailto:sales@pasternack.com)

FSCM NO. 53919

CAD FILE 021015

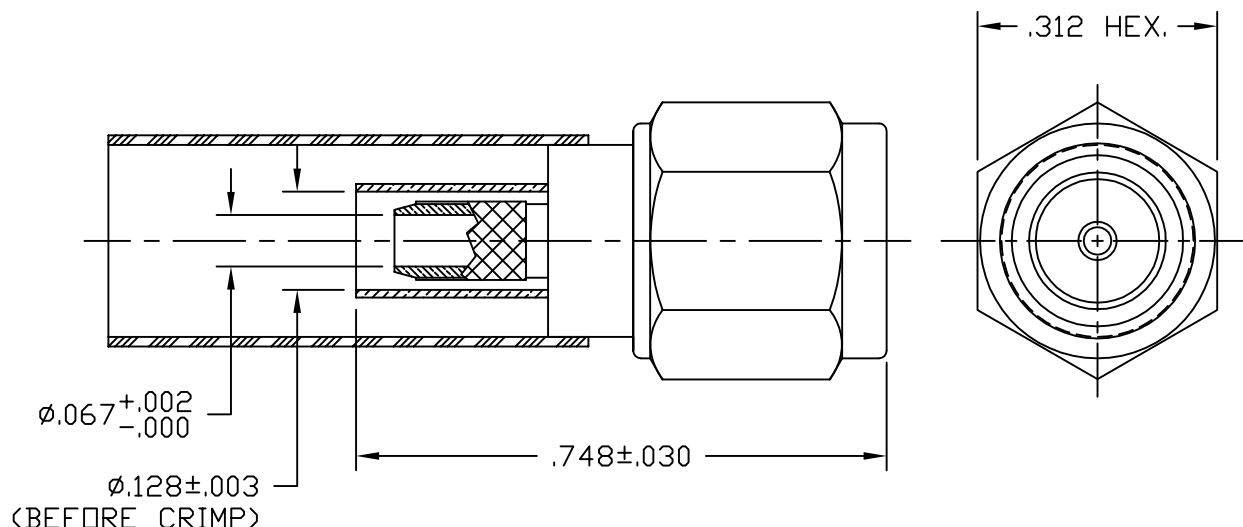
SCALE N/A

SIZE A

200

**NOTICE OF PROPRIETARY RIGHTS** THIS DOCUMENT CONTAINS CONFIDENTIAL TECHNICAL DATA, INCLUDING TRADE SECRETS, PROPRIETARY TO TIMES MICROWAVE SYSTEMS. DISCLOSURE OF THIS DATA IS EXPRESSLY CONDITIONED UPON YOUR ASSENT THAT ITS USE IS LIMITED TO USE WITHIN YOUR COMPANY ONLY. ANY OTHER USE IS STRICTLY PROHIBITED WITHOUT THE PRIOR WRITTEN CONSENT OF TIMES MICROWAVE SYSTEMS.

| SYM | REVISION DESCRIPTION    | DFTM     | DATE    | APPD     | DATE    |
|-----|-------------------------|----------|---------|----------|---------|
| -   | RELEASED FOR PRODUCTION | J. C. L. | 8/20/03 | J. C. L. | 8/20/03 |
| A   | CHANGED PER CDC #36704  | D. J. H. | 1/14/13 | J. D. B. | 1/15/13 |
| B   | CHANGED PER CDC #37206  | J. D. B. | 3/26/13 | J. D. B. | 3/26/13 |
| C   | CHANGED PER CDC #54172  | D. J. H. | 3/2/20  | D. A. R. | 3/2/20  |



#### NOTES:

1. ASSEMBLED CONNECTOR INTERFACE IS DESIGNED IN ACCORDANCE WITH MIL-STD-348.
2. MATERIAL: BODY & HEX COUPLING NUT- CORROSION RESISTANT STEEL PER ASTM A582.  
CONTACT - BERYLLIUM COPPER PER ASTM B196.  
INSULATOR - TEFLON PER ASTM D1710  
GASKET - SILICONE RUBBER PER ZZ-R-765  
SHRINK SLEEVE - SHRINKABLE POLYOLEFIN PER MIL-I-23053/5
3. FINISHES: BODY & HEX COUPLING NUT - PASSIVATE PER QQ-P-35  
CONTACT - GOLD PLATE PER MIL-G-45204
4. CONTACT PIN IS SOLDERED.
5. CRIMP THE FERRULE TO .128" HEX.

|            |             |   |                  |                |   |             |       |
|------------|-------------|---|------------------|----------------|---|-------------|-------|
| MATL:      |             | UNLESS OTHERWISE SPECIFIED  |                  | DFTM. J. C. L. | TIMES MICROWAVE SYSTEMS                   |             |       |
|            |             |   |                  | DATE 8/20/03   |   |             |       |
| USED ON: B |             | ALL DIMENSIONS ARE IN INCHES<br>MACHINED SURFACES FINISH N/A RMS MAX.<br>REMOVE ALL BURRS .005 MAX. BREAK<br>MACHINE CORNERS .005 MAX. FILLET R.<br>TOLERANCES ON DECIMALS<br>.XX ± .03                      .XXX ± .005<br>ANGLES ± 1°                      FRACTIONS ± 1/32 |                  | CHKD. J. C. L. | TC-100-SM<br>SMA MALE FOR<br>LMR100 CABLE |             |       |
|            |             |   |                  | DATE 8/20/03   |   |             |       |
|            |             |   |                  | APPD. J. C. L. |   |             |       |
| SCALE: N/A | DWG. SIZE A | DO NOT SCALE DRAWING  | CODE IDENT 68999 | DATE 8/20/03   | SHEET 1 of 1                              | SD3190-1551 | REV C |

## Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket

### RF Cables Technical Data Sheet

PE-C100-LSZH

#### Configuration

Low Loss Flexible Cable  
2 Number of Shields

#### Electrical Specifications

| Description             | Minimum | Typical       | Maximum | Units        |
|-------------------------|---------|---------------|---------|--------------|
| Frequency Range         | DC      |               | 5       | GHz          |
| Cutoff Frequency        |         | 41            |         | GHz          |
| Impedance               |         | 50            |         | Ohms         |
| Velocity of Propagation |         | 66            |         | %            |
| Shielding Effectiveness | 90      |               |         | dB           |
| Operating Voltage (AC)  |         |               | 500     | Vrms         |
| Jacket Spark            |         |               | 2,000   | Vrms         |
| Nominal Capacitance     |         | 30.8 [101.05] |         | pF/ft [pF/m] |
| Nominal Inductance      |         | 0.077 [0.25]  |         | uH/ft [uH/m] |

#### Performance by Frequency Band

| Description           | F1   | F2    | F3   | F4    | F5    | Units    |
|-----------------------|------|-------|------|-------|-------|----------|
| Frequency             | 30   | 50    | 150  | 220   | 450   | MHz      |
| Attenuation, Typ      | 3.9  | 5.1   | 8.9  | 10.9  | 15.8  | dB/100ft |
|                       | 12.8 | 16.73 | 29.2 | 35.76 | 51.84 | dB/100m  |
| Input Power (CW), Max | 230  | 180   | 100  | 80    | 60    | Watts    |

| Description           | F6    | F7     | F8     | F9     | F10    | Units    |
|-----------------------|-------|--------|--------|--------|--------|----------|
| Frequency             | 0.7   | 1.5    | 1.8    | 2.5    | 5      | GHz      |
| Attenuation, Typ      | 20.1  | 30.5   | 33.5   | 40.5   | 60     | dB/100ft |
|                       | 65.94 | 100.07 | 109.91 | 132.87 | 196.85 | dB/100m  |
| Input Power (CW), Max | 40    | 40     | 40     | 40     | 10     | Watts    |

#### Mechanical Specifications

Diameter 0.109 in [2.77 mm]  
Weight 0.014 lbs/ft [0.02 Kg/m]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket PE-C100-LSZH](#)

## Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket

### RF Cables Technical Data Sheet

PE-C100-LSZH

|                                 |                        |
|---------------------------------|------------------------|
| Min. Bend Radius (Installation) | 0.25 in [6.35 mm]      |
| Min. Bend Radius (Repeated)     | 1 in [25.4 mm]         |
| Bending Moment                  | 0.1 lbs/ft [0.15 Kg/m] |
| Tensile Strength                | 15 lbs [6.8 Kg]        |
| Flat Plate Crush                | 10 lbs/in [0.18 Kg/mm] |

#### Construction Specifications

| Description     | Material and Plating         | Diameter           |
|-----------------|------------------------------|--------------------|
| Inner Conductor | Copper Clad Steel, 1 Strands | 0.018in [0.46 mm]  |
| Dielectric      | PE                           | 0.059 in [1.5 mm]  |
| First Shield    | Aluminum Tape                |                    |
| Second Shield   | Tinned Copper Braid          |                    |
| Jacket          | LSZH, Black                  | 0.109 in [2.77 mm] |

#### Environmental Specifications

##### Temperature

|                 |                 |
|-----------------|-----------------|
| Operating Range | -40 to 85 deg C |
| Storage Range   | -40 to 85 deg C |

#### Compliance Certifications (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

|                 |            |
|-----------------|------------|
| RoHS Compliant  |            |
| REACH Compliant | 12/17/2014 |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket PE-C100-LSZH](#)

## Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket

### RF Cables Technical Data Sheet

PE-C100-LSZH

#### Plotted and Other Data

##### Notes:

Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket 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.

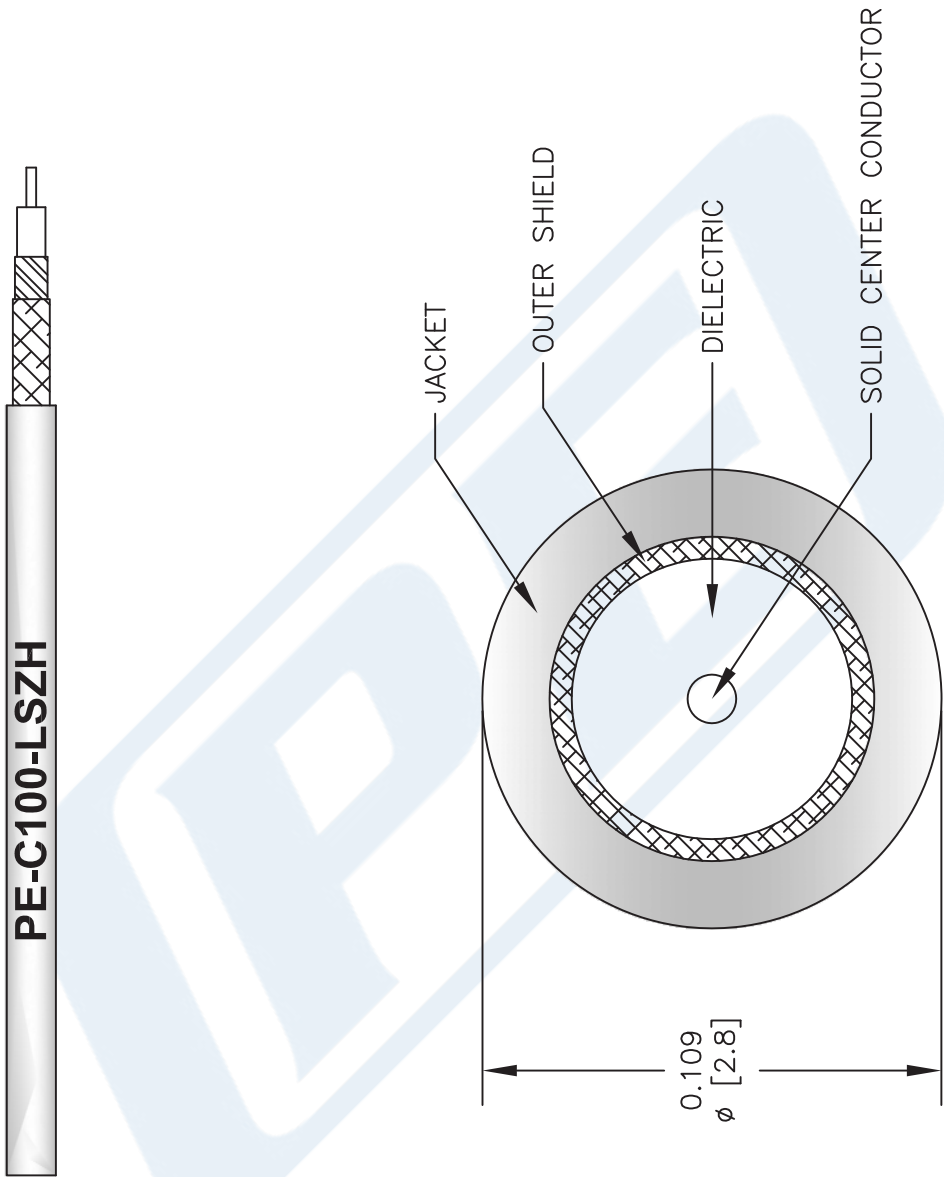
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket PE-C100-LSZH](#)

URL: <http://www.pasternack.com/50-ohm-low-loss-lszh-jacket-aluminum-tape-over-tinned-copper-braid-outer-conductor-double-shielded-pe-c100-lszh-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.

PE-C100-LSZH CAD Drawing

Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket



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  
**PE-C100-LSZH**

FSCM NO. 53919

CAD FILE 031313

SCALE N/A

SIZE A

2233

**Pasternack®**

Pasternack Enterprises, Inc.  
P.O. Box 16759 | Irvine | CA | 92623  
Phone: (949) 261-1920 | Fax: (949) 261-7451  
Website: [www.pasternack.com](http://www.pasternack.com) | E-Mail: [sales@pasternack.com](mailto:sales@pasternack.com)