



## TNC Male Connector Crimp/Solder Attachment for LMR-100A-PVC, PE-C100, RG174, RG188, RG316

### RF Connectors Technical Data Sheet



**SC-100-TM-D**

#### Times Microwave Systems Connector Specification

##### Configuration

- TNC Male Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: LMR-100A-PVC, PE-C100, RG174, RG188, RG316

##### Features

- Max. Operating Frequency 6 GHz
- Gold Plated Beryllium Copper Contact
- 15 µin contact plating

##### Applications

- General Purpose Test
- Custom Cable Assemblies

##### Description

Pasternack's SC-100-TM-D TNC male connector with crimp/solder attachment for LMR-100A-PVC, PE-C100, RG174, RG188 and RG316 is part of our full line of RF components available for same-day shipping. Our TNC male connector operates up to a maximum frequency of 6 GHz.

Our TNC male connector SC-100-TM-D 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   |
| Dielectric Withstanding Voltage (AC) |         |         | 1,000   | Vrms  |
| Insulation Resistance                | 5,000   |         |         | MOhms |

##### Performance by Frequency

| Description         | F1        | F2 | F3 | F4 | F5 | Units |
|---------------------|-----------|----|----|----|----|-------|
| Frequency Range     | DC to 2.2 |    |    |    |    | GHz   |
| VSWR, Max           | 1.25:1    |    |    |    |    |       |
| Insertion Loss, Max | 0.245     |    |    |    |    | dB    |

Electrical Specification Notes:  
Insertion Loss is  $-0.1 \cdot \sqrt{f(\text{GHz})}$

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male Connector Crimp/Solder Attachment for LMR-100A-PVC, PE-C100, RG174, RG188, RG316 SC-100-TM-D](#)

## TNC Male Connector Crimp/Solder Attachment for LMR-100A-PVC, PE-C100, RG174, RG188, RG316



### RF Connectors Technical Data Sheet



**SC-100-TM-D**

#### Mechanical Specifications

|             |                    |
|-------------|--------------------|
| <b>Size</b> |                    |
| Length      | 1.14 in [28.96 mm] |
| Width/Dia.  | 0.6 in [15.24 mm]  |
| Weight      | 0.043 lbs [19.5 g] |

#### Material Specifications

| Description  | Material         | Plating           |
|--------------|------------------|-------------------|
| Contact      | Beryllium Copper | Gold<br>15 µin    |
| Insulation   | Teflon           |                   |
| Body         | Brass            | Nickel<br>100 µin |
| Coupling Nut | Brass            | Nickel<br>100 µin |
| Gasket       | Silicone         |                   |

#### Environmental Specifications

|                    |                   |
|--------------------|-------------------|
| <b>Temperature</b> |                   |
| Operating Range    | -40 to +125 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: [TNC Male Connector Crimp/Solder Attachment for LMR-100A-PVC, PE-C100, RG174, RG188, RG316 SC-100-TM-D](#)



## TNC Male Connector Crimp/Solder Attachment for LMR-100A-PVC, PE-C100, RG174, RG188, RG316

### RF Connectors Technical Data Sheet



**SC-100-TM-D**

TNC Male Connector Crimp/Solder Attachment for LMR-100A-PVC, PE-C100, RG174, RG188, RG316 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.

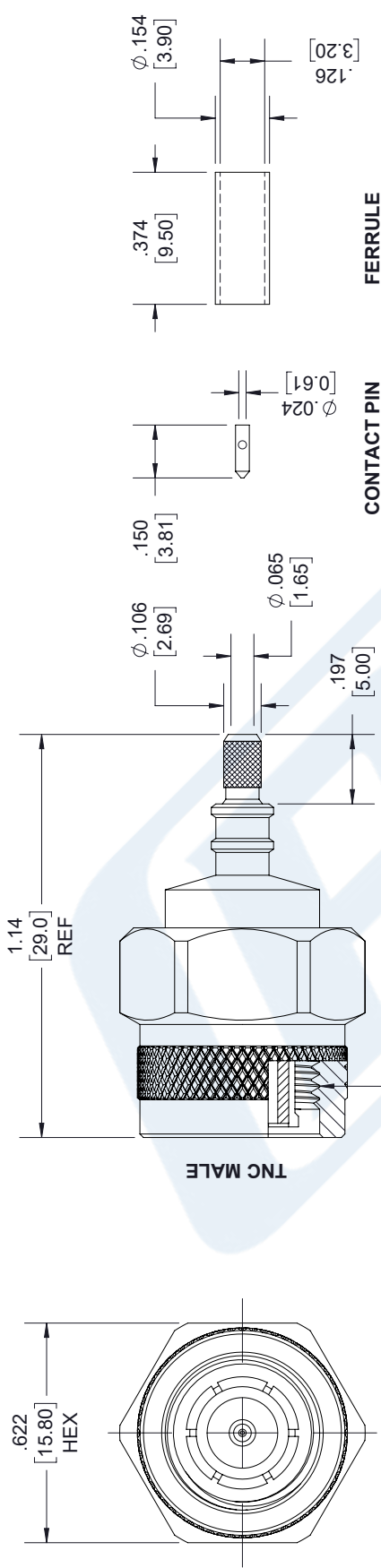
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male Connector Crimp/Solder Attachment for LMR-100A-PVC, PE-C100, RG174, RG188, RG316 SC-100-TM-D](https://www.pasternack.com/tnc-male-lmr-100a-pvc-pe-c100-connector-sc-100-tm-d-p.aspx)

URL: <https://www.pasternack.com/tnc-male-lmr-100a-pvc-pe-c100-connector-sc-100-tm-d-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.

**TIMES** MICROWAVE SYSTEMS **SC-100-TM-D CAD Drawing**  
TNC Male Connector Crimp/Solder Attachment for LMR-  
100A-PVC, PE-C100, RG174, RG188, RG316

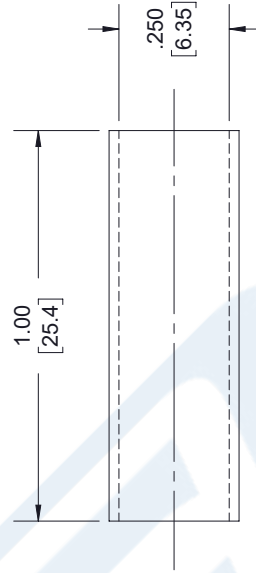
| REVISIONS |                 |           |          |
|-----------|-----------------|-----------|----------|
| REV.      | DESCRIPTION     | DATE      | APPROVED |
| A         | INITIAL RELEASE | 3/23/2020 | SELLIS   |



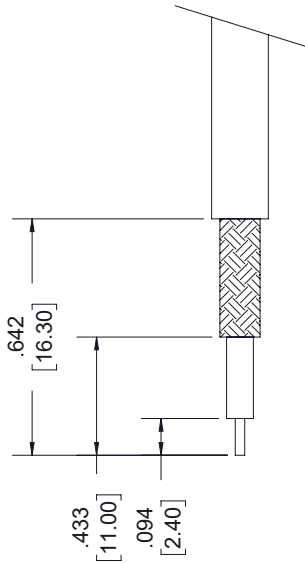
**CONTACT PIN**

**FERRULE**

7/16-28 UNEF-2A



**SHRINK TUBE**



**STRIPPING DIMENSIONS**

**NOTES:**

- CABLE ATTACHMENT:  
• OUTER: CRIMP.  
• INNER: SOLDER.
- CRIMP SIZE REQUIRED:  
• FERRULE: .138 [3.51] HEX. CRIMP TOOL.  
• CONTACT: SOLDER.

|                                                                                                  |               |
|--------------------------------------------------------------------------------------------------|---------------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |               |
| TOLERANCES:                                                                                      | FRACTIONS     |
| .X = ± .2 [5.08]                                                                                 | ± 1/32        |
| .XX = ± .02 [.51]                                                                                | ± .005 [0.13] |
| .XXX = ± .005 [.13]                                                                              | ± .005 [0.13] |
| 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<br>ARE FOR REFERENCE ONLY.                                                  |               |

**PE PASTERNAK**  
an INFINITI® brand

Pasternack Enterprises, Inc.  
P.O. Box 16759, Irvine, CA 92623.  
Phone: 1.949.261.1920 | 1.866.727.8376  
Fax: 1.949.261.7451  
Website: www.pasternack.com  
E-mail: sales@pasternack.com

THIRD-ANGLE PROJECTION

THE INFORMATION AND  
DESIGN IN THIS DOCUMENT  
IS THE PROPERTY OF  
PASTERNAK CORPORATION  
ALL RIGHTS RESERVED.

SHEET 1 OF 1  
SCALE N/A

SIZE CAGE CODE DRAWN BY ITEM NO. REV  
A 53919 K.DANG SC-100-TM-D A

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE  
WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.



BNC Male Connector Crimp/Crimp Attachment for  
.100 inch, RG316, RG174, RG188, LMR-100, LMR-  
100, LMR-100-FR, PE-C100, PE-B100

## RF Connectors Technical Data Sheet

**PE45045**

### Configuration

- BNC Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- .100 inch, RG316, RG174, RG188, LMR-100, LMR-100, LMR-100-FR, PE-C100, PE-B100 Interface Type
- Crimp/Crimp Attachment

### Features

- Max. Operating Frequency 3 GHz
- Excellent VSWR of 1.25:1
- Gold Plated Brass Contact
- 50  $\mu$ in minimum contact plating

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE45045 BNC male connector with crimp/crimp attachment for .100 inch, RG316, RG174, RG188, LMR-100, LMR-100, LMR-100-FR, PE-C100 and PE-B100 is part of our full line of RF components available for same-day shipping. Our BNC male connector operates up to a maximum frequency of 3 GHz and offers excellent VSWR of 1.25:1.

Our BNC male connector PE45045 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      |         | 3       | GHz   |
| VSWR                   |         |         | 1.25:1  |       |
| Operating Voltage (AC) |         |         | 335     | Vrms  |

### Mechanical Specifications

#### Size

|            |                     |
|------------|---------------------|
| Length     | 0.99 in [25.15 mm]  |
| Width/Dia. | 0.57 in [14.48 mm]  |
| Weight     | 0.027 lbs [12.25 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male Connector Crimp/Crimp Attachment for .100 inch, RG316, RG174, RG188, LMR-100, LMR-100, LMR-100-FR, PE-C100, PE-B100 PE45045](#)



BNC Male Connector Crimp/Crimp Attachment for  
.100 inch, RG316, RG174, RG188, LMR-100, LMR-  
100, LMR-100-FR, PE-C100, PE-B100

## RF Connectors Technical Data Sheet

**PE45045**

### Material Specifications

| Description  | Material        | Plating                   |
|--------------|-----------------|---------------------------|
| Contact      | Brass           | Gold<br>50 µin minimum    |
| Insulation   | PTFE            |                           |
| Body         | Brass           | Nickel<br>100 µin minimum |
| Coupling Nut | Brass           | Nickel<br>100 µin minimum |
| Gasket       | Silicone Rubber |                           |

### Environmental Specifications

#### Temperature

Operating Range -65 to +165 deg C

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

### Plotted and Other Data

Notes:

### Assembly Instruction

BNC Male Connector Crimp/Crimp Attachment for .100 inch, RG316, RG174, RG188, LMR-100, LMR-100, LMR-100-FR, PE-C100, PE-B100 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: [BNC Male Connector Crimp/Crimp Attachment for .100 inch, RG316, RG174, RG188, LMR-100, LMR-100, LMR-100-FR, PE-C100, PE-B100 PE45045](#)

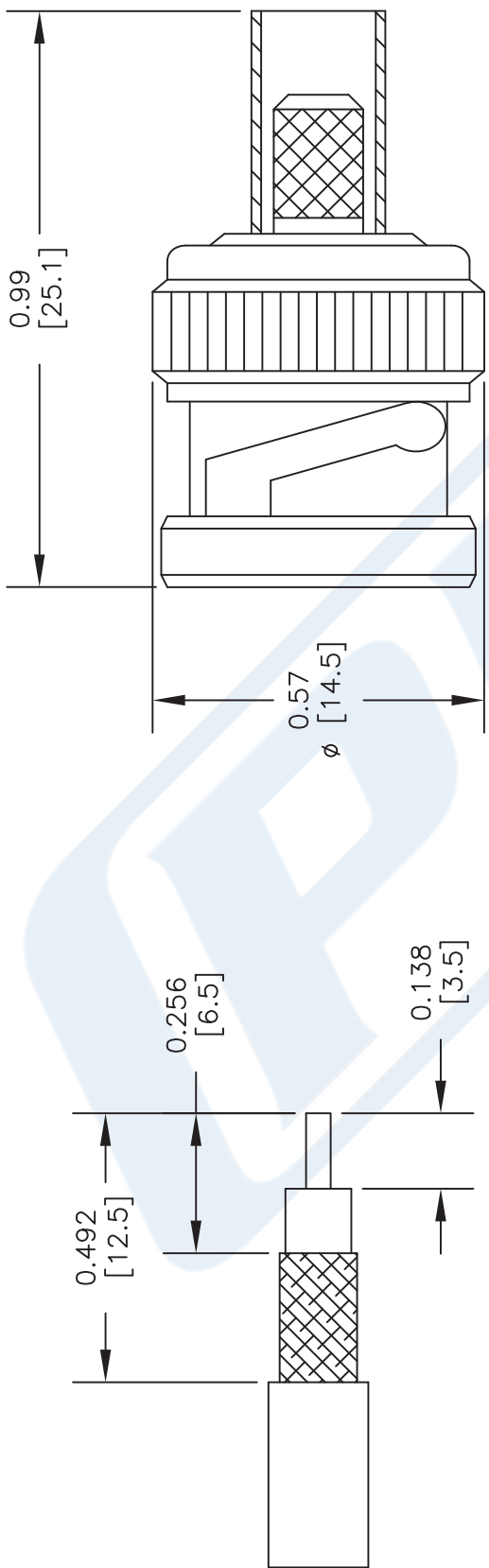
URL: <https://www.pasternack.com/bnc-male-.100-rg316-rg188-lmr-100-lmr-100-connector-pe45045-p.aspx>

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.



PE45045 CAD Drawing

BNC Male Connector Crimp/Crimp Attachment for .100 inch, RG316, RG174, RG188, LMR-100, LMR-100, LMR-100-FR, PE-C100, PE-B100



STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: 0.042" SQ. CRIMP TOOL

FERRULE: 0.138" HEX. CRIMP TOOL

**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 | E-Mail: sales@pasternack.com

DWG TITLE  
**PE45045**

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.

CAGE CODE 53919

CAD FILE 021617

SCALE N/A

SIZE A

2233

## 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.

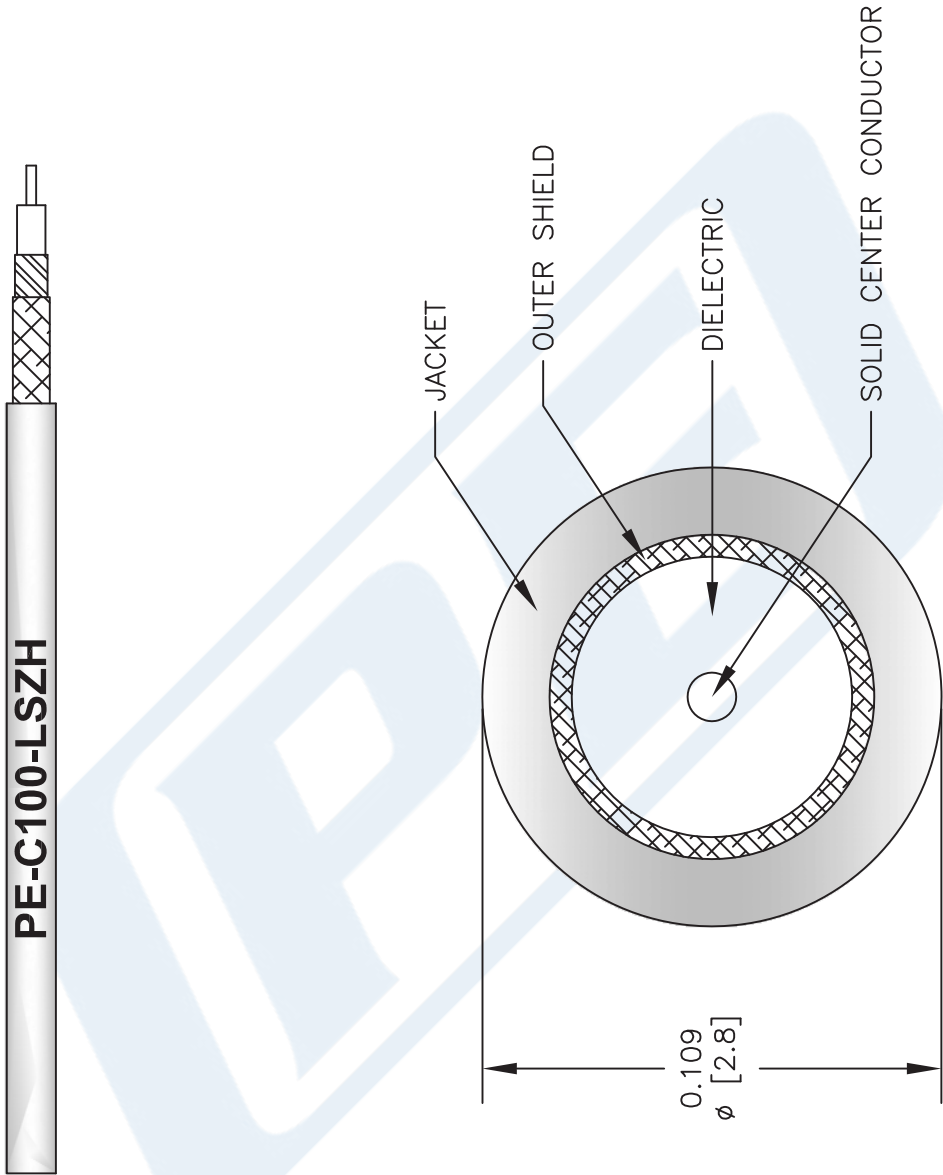
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss Flexible RG174 Type Coax Cable Double Shielded with Black LSZH Jacket PE-C100-LSZH](#)

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 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)