



N Male Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch

RF Connectors Technical Data Sheet

PE4429

Configuration

- N Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry

- RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch Interface Type
- Crimp/Solder Attachment

Features

- Max. Operating Frequency 1,000 MHz
- Good VSWR of 1.5:1

- Gold Plated Brass Contact
- 30 μ in minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4429 type N male connector with crimp/solder attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100 and 0.100 inch is part of our full line of RF components available for same-day shipping. Our type N male connector operates up to a maximum frequency of 1,000 MHz and offers good VSWR of 1.5:1.

Our type N male connector PE4429 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 | | 1,000 | MHz |
| VSWR | | | 1.5:1 | |
| Operating Voltage (AC) | | | 900 | Vrms |

Mechanical Specifications

| Size | |
|------------|---------------------|
| Length | 1.304 in [33.12 mm] |
| Width/Dia. | 0.8 in [20.32 mm] |
| Weight | 0.062 lbs [28.12 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch PE4429](#)



N Male Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch

RF Connectors Technical Data Sheet

PE4429

Material Specifications

| Description | Material | Plating |
|--------------|----------|--------------------------------|
| Contact | Brass | Gold 30 μ in minimum |
| Insulation | PTFE | |
| Body | Brass | Nickel 100 μ in minimum |
| Coupling Nut | Brass | Nickel 100 μ in minimum |

Environmental Specifications

Temperature

Operating Range

-65 to +165 deg C

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

Plotted and Other Data

Notes:

N Male Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch 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.

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URL: <https://www.pasternack.com/n-male-standard-rg174-rg316-rg188-connector-pe4429-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.

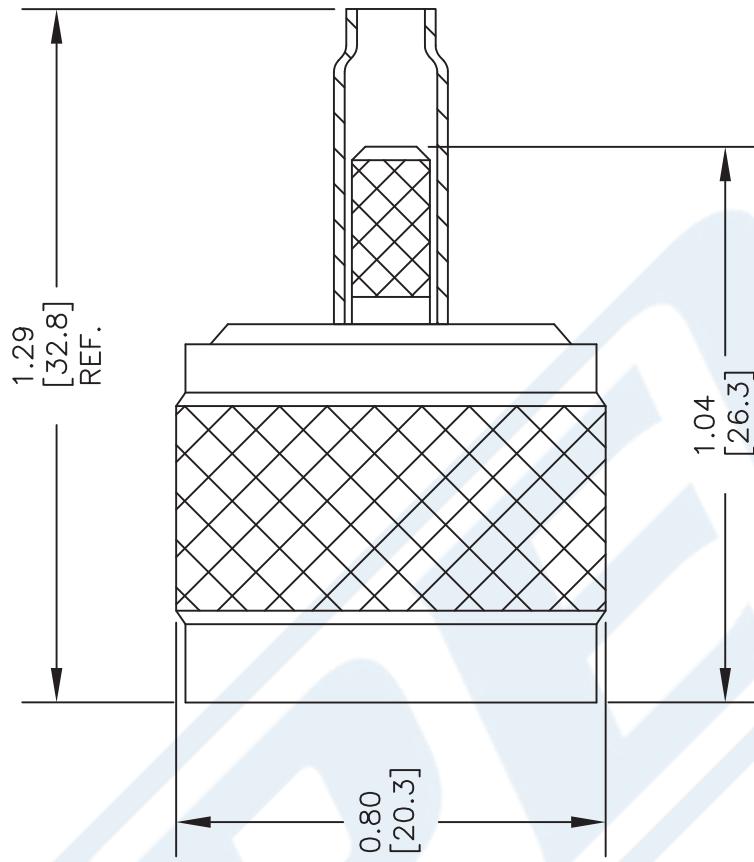
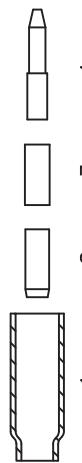
PE4429 CAD Drawing

N Male Connector Crimp/Solder Attachment for RG174, RG316,
RG188, LMR-100, PE-B100, PE-C100, 0.100 inch

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN & SLIDE FERRULE (1) ONTO CABLE.

2. FLARE END OF CABLE BRAID & SLIDE METAL SPACER (2) & PTFE (3) SPACER OVER CABLE DIELECTRIC.



STRIPPING DIMENSIONS

3. THE CONTACT (4) SHOULD BUTT AGAINST THE DIELECTRIC & PTFE SPACER. CRIMP CONTACT TO CABLE CENTER CONDUCTOR.

4. INSTALL CABLE ASSEMBLY INTO BODY SO THAT THE INNER FERRULE PORTION OF BODY SLIDES UNDER BRAID. PUSH CABLE ASSEMBLY FORWARD INTO BODY. SLIDE FERRULE OVER BRAID & UP AGAINST BODY. CRIMP FERRULE.

CRIMP SIZE REQUIRED

CONTACT: .068" HEX CRIMP TOOL
FERRULE: .178" HEX CRIMP TOOL



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

| CRIMP SIZE REQUIRED | DWG TITLE | PE4429 | NOTES: |
|--|-----------|--------|--|
| CONTACT: .068" HEX CRIMP TOOL FERRULE: .178" HEX CRIMP TOOL | FSCM NO. | 53919 | 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. |

| SIZE A | SCALE N/A | CAD FILE | 121313 | 2233 |
|--------|-----------|----------|--------|------|
| | | | | |



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Environmental Specifications

Temperature

Operating Range

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

Plotted and Other Data

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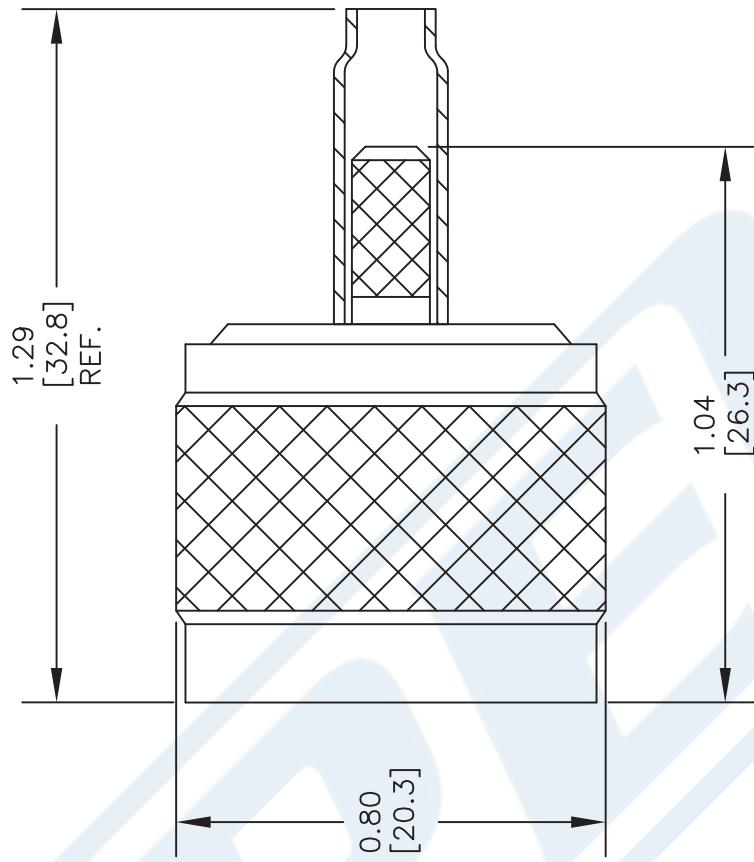
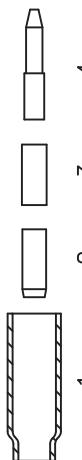
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PE4429 CAD Drawing

N Male Connector Crimp/Solder Attachment for RG174, RG316,
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ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN & SLIDE FERRULE (1) ONTO CABLE.
2. FLARE END OF CABLE BRAID & SLIDE METAL SPACER (2) & PTFE (3) SPACER OVER CABLE DIELECTRIC.



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| FSCM NO. | 53919 | CAD FILE |
| | | 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 for current document)

RoHS Compliant

12/17/2014

REACH Compliant

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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:

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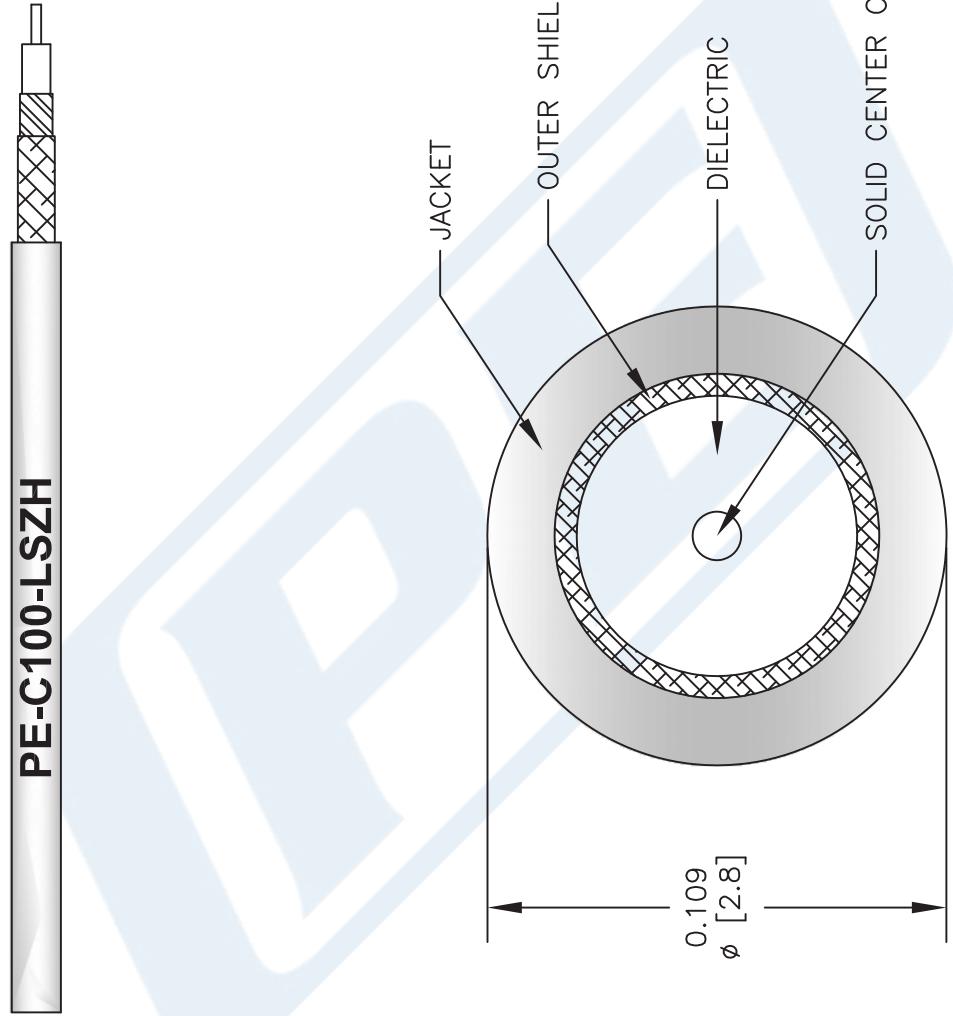
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URL: <http://www.pasternack.com/50-ohm-low-loss-lszhjacket-aluminumtape-over-tinnedcopperbraid-outerconductor-double-shieldedpe-c100-lszh-p.aspx>

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PE-C100-LSZH CAD Drawing

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



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PE-C100-LSZH

DWG TITLE

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| | | | | | | | | |
|----------|-------|----------|--------|-------|-----|------|---|------|
| FSCM NO. | 53919 | CAD FILE | 031313 | SCALE | N/A | SIZE | A | 2233 |
|----------|-------|----------|--------|-------|-----|------|---|------|