

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



RF Connectors Technical Data Sheet

PE4438

Configuration

- N Female Connector
- 50 Ohms
- Straight Body Geometry

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

Features

Gold Plated Contact

Applications

• General Purpose Test

Custom Cable Assemblies

Description

Pasternack's PE4438 type N female 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 female connector PE4438 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 1.585 in [40.26 mm]
Width/Dia. 0.625 in [15.88 mm]
Weight 0.066 lbs [29.94 g]

Material Specifications

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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch PE4438

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451



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



RF Connectors Technical Data Sheet

PE4438

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

N Female 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, 0.100 inch PE4438

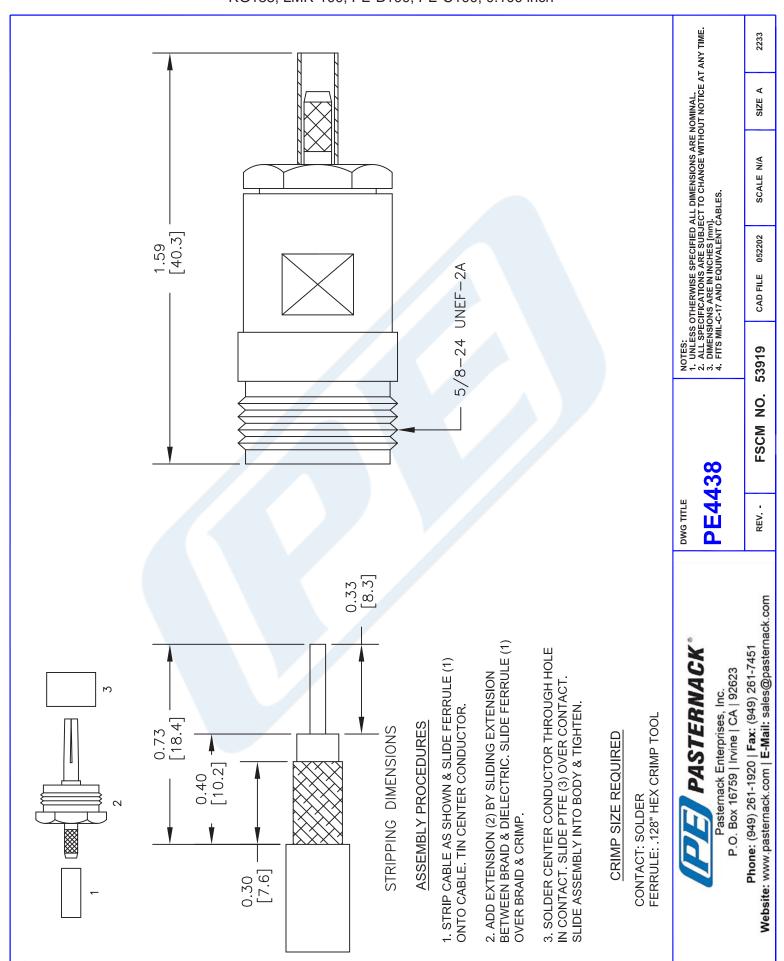
URL: https://www.pasternack.com/n-female-standard-rg174-rg316-rg188-connector-pe4438-p.aspx

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.

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PE4438 CAD Drawing

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





RP SMA Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100



RF Connectors Technical Data Sheet

PE4797

Configuration

- SMA Female Reverse Polarity Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry

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

Features

- Gold Plated Contact
- Contact plating according to MIL-G-45204
- Reverse Polarity

Applications

• General Purpose Test

Custom Cable Assemblies

Description

Pasternack's PE4797 RP SMA female connector with crimp/solder attachment for RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch and LMR-100 is part of our full line of RF components available for same-day shipping. The female reverse polarity configuration uses a female connector body with a male inner contact pin.

Our reverse polarity SMA female connector PE4797 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
 0.81 in [20.57 mm]

 Width/Dia.
 0.312 in [7.92 mm]

 Weight
 0.008 lbs [3.63 g]

Material Specifications

| Description | Material | Plating |
|-------------|----------|---------------------|
| Contact | | Gold MIL-G-45204 |
| Insulation | PTFE | |
| Body | Brass | Nickel QQ-N-290 |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: RP SMA Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100 PE4797

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RP SMA Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100



RF Connectors Technical Data Sheet

PE4797

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

RP SMA Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch, 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: RP SMA Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100 PE4797

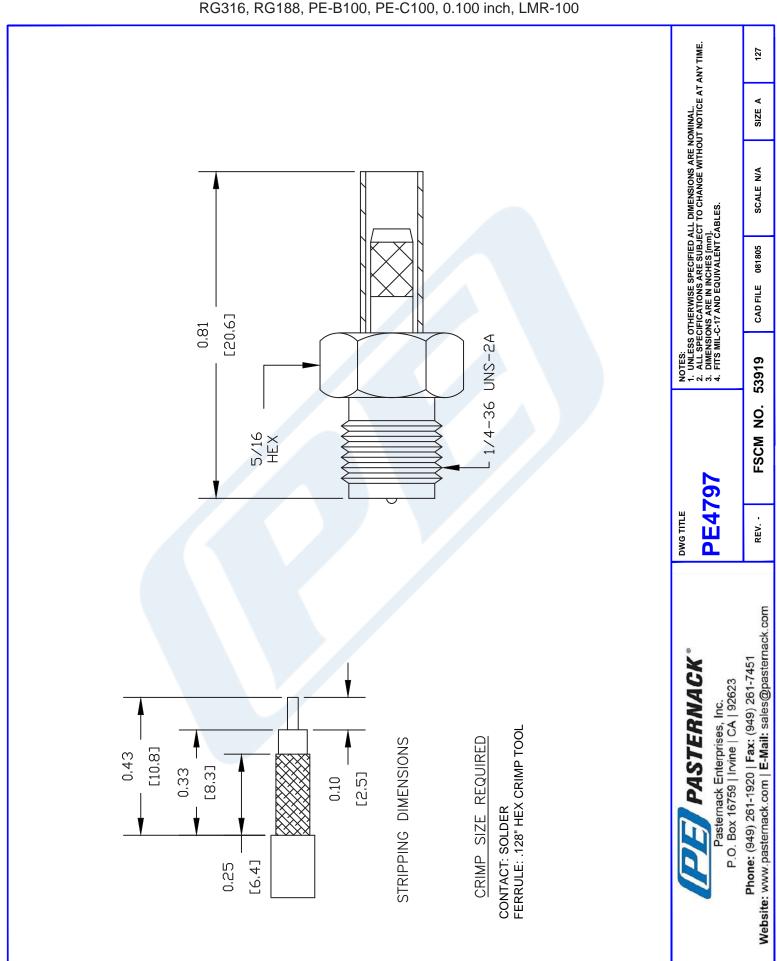
URL: https://www.pasternack.com/sma-female-reverse-polarity-rg174-rg316-rg188-connector-pe4797-p.aspx

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PE4797 CAD Drawing

RP SMA Female Connector Crimp/Solder Attachment for RG174, RG316, RG188, PE-B100, PE-C100, 0.100 inch, LMR-100





LMR®-100A Flexible Low Loss Communications Coax Ideal for...

- Drop-in Replacement for RG-316/RG-174 (uses standard connectors)
- Jumper Assemblies in Wireless Communications Systems
- Short Antenna Feeder runs
- Any application (e.g. WLL, GPS, LMR, WLAN, WISP, WiMax, SCADA, Mobile Antennas) requiring an easily routed, low loss RF cable
- LMR°-PVC is designed for low loss general-purpose indoor/outdoor applications and is somewhat more flexible than the standard polyethylene jacketed LMR.
- LMR°-PVC-W is a white-jacketed version of LMR-PVC for marine and other indoor/outdoor applications where color compatibility is desired.
- Flexibility and bendability are hallmarks of the LMR-100A cable design. The flexible outer conductor enables the tightest bend radius available for any cable of similar size and performance.
- Low Loss is another hallmark feature of LMR-100A. Size for size LMR has the lowest loss of any flexible cable and comparable loss to semirigid hard-line cables.
- **RF Shielding** is 50 dB greater than typical single shielded coax (40 dB). The multi-ply bonded foil outer conductor is rated conservatively at > 90 dB (i.e. >180 dB between two adjacent cables).
- Weatherability: LMR-100A cables designed for outdoor exposure incorporate the best materials for UV resistance and have life expectancy in excess of 20 years.
- Connectors: A wide variety of connectors are available for LMR-100A cable, including all common interface types, reverse polarity, and a choice of solder or non-solder center pins. Most LMR connectors employ crimp outer attachment using standard hex crimp sizes.
- Cable Assemblies: All LMR-100A cable types are available as pre-terminated cable assemblies. Refer to the section on FlexTech for further details.

| Part Description | | | | | | |
|------------------|--------------------------|--------|-------|-------|--|--|
| Part Number | Application | Jacket | Color | Code | | |
| LMR-100A-FR | Indoor/Outdoor Riser CMR | FRPE | Black | 54037 | | |
| LMR-100A-PVC | -100A-PVC Indoor/Outdoor | | Black | 54119 | | |
| LMR-100A-PVC- | -W Indoor/Outdoor | PVC | White | 54200 | | |

PVC = Poly Vinyl Chloride; MTO = Made to Order

| Construction Specifications | | | | | | | |
|-----------------------------|-------------------|-------|--------|--|--|--|--|
| Description | Material | In. | (mm) | | | | |
| Inner Conductor | Solid BCCS | 0.018 | (0.46) | | | | |
| Dielectric | Solid PE | 0.060 | (1.52) | | | | |
| Outer Conductor | Aluminum Tape | 0.065 | (1.65) | | | | |
| Overall Braid | Tinned Copper | 0.083 | (2.11) | | | | |
| Jacket | (see table above) | 0.110 | (2.79) | | | | |

LINE TODA TIME

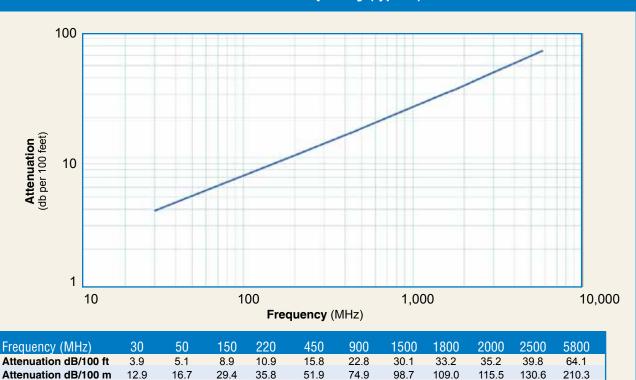
| Mechanical Specifications | | | | | | | | |
|---------------------------|----------------|--------|----------|--|--|--|--|--|
| Performance Property | Units | US | (metric) | | | | | |
| Bend Radius: installation | in. (mm) | 0.25 | (6.4) | | | | | |
| Bend Radius: repeated | in. (mm) | 1 | (25.4) | | | | | |
| Bending Moment | ft-lb (N-m) | 0.1 | (0.014) | | | | | |
| Weight | lb/ft (kg/m) | 0.0092 | (.014) | | | | | |
| Tensile Strength | lb (kg) | 15 | (6.8) | | | | | |
| Flat Plate Crush | lb/in. (kg/mm) | 10 | (0.18) | | | | | |

| Environmental Specifications | | | | | | | |
|--------------------------------|----------|---------|--|--|--|--|--|
| Performance Property | °F | °C | | | | | |
| Installation Temperature Range | -40/+185 | -40/+85 | | | | | |
| Storage Temperature Range | -94/+185 | -70/+85 | | | | | |
| Operating Temperature Range | -40/+185 | -40/+85 | | | | | |

| Electrical Specifications | | | | | | | |
|---------------------------|-------------------|-------|----------|--|--|--|--|
| Performance Property | Units | US | (metric) | | | | |
| Velocity of Propagation | % | 66 | | | | | |
| Dielectric Constant | NA | 2.30 | | | | | |
| Time Delay | nS/ft (nS/m) | 1.54 | (5.05) | | | | |
| Impedance | ohms | 50 | | | | | |
| Capacitance | pF/ft (pF/m) | 30.8 | (101.1) | | | | |
| Inductance | uH/ft (uH/m) | 0.077 | (0.25) | | | | |
| Shielding Effectiveness | dB | >90 | | | | | |
| DC Resistance | | | | | | | |
| Inner Conductor | ohms/1000ft (/km) | 81.0 | (266) | | | | |
| Outer Conductor | ohms/1000ft (/km) | 9.5 | (31.2) | | | | |
| Voltage Withstand | Volts DC | 500 | | | | | |
| Jacket Spark | Volts RMS | 2000 | | | | | |
| Peak Power | kW | 0.6 | | | | | |



Attenuation vs. Frequency (typical)



Calculate Attenuation = (0.709140) • √ FMHz + (0.001740) • FMHz (interactive calculator available at http://www.timesmicrowave/telecom)

Attenuation: VSWR=1.0; Ambient = +25°C (77°F) Power: VSWR=1.0; Ambient = +40°C; Inner Conductor = 100°C (212°F);

Sea Level; dry air; atmospheric pressure; no solar loading

0.057

0.039

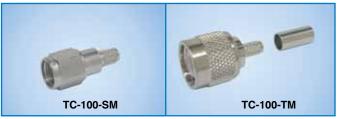
0.029

0.027

0.025

0.022

0.013



Connectors

| | | Part | Stock | | | Coupling | | | Body | Le | | | idth | | ight |
|-----------|---------------|-----------|-----------|---------|-------|----------|--------|--------|------|-----|--------|------|--------|-------|--------|
| Interface | Description | Number | Code | Freq. | (GHz) | Nut | Attach | Attach | /Pin | in | (mm) | in | (mm) | lb | (g) |
| SMA male | Straight Plug | TC-100-SM | 3190-1551 | <1.25:1 | (<3) | Hex | Solder | Crimp | SS/G | 1.0 | (25.4) | 0.32 | (8.1) | 0.015 | (6.8) |
| TNC male | Straight Plug | TC-100-TM | 3190-1552 | <1.25:1 | (<3) | Knurl | Solder | Crimp | S/G | 1.4 | (35.6) | 0.59 | (15.0) | 0.045 | (20.4) |

^{*} Finish metals: N=Nickel, S=Silver, G=Gold, SS=Stainless Steel, A=Alballoy **VSWR spec based on 3 foot cable with a connector pair



Avg. Power kW

0.230

0.180

0.100

0.083

CROWAVE

Install Tools

| Туре | Part Number | Stock Code | Description |
|------------------|--------------------|------------|---|
| Crimp Tool | CT-240/200/195/100 | 3190-667 | Crimp tool for LMR-100, 195, 200 and 240 connectors |
| Cutting Tool | CCT-01 | 3190-1544 | Cable end flush cut tool |
| Replacement Blac | de RB-01 | 3190-1609 | Replacement blade for cutting tool |

