



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

RF Connectors Technical Data Sheet

PE4003

Configuration

- SMA Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch
- 5/16 inch Hex

Features

- Max. Operating Frequency 12.4 GHz
- Excellent VSWR of 1.21:1
- Gold Plated Brass Contact
- 30 µin minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4003 SMA male connector with crimp/crimp attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100 and .100 inch is part of our full line of RF components available for same-day shipping. Our SMA male connector operates up to a maximum frequency of 12.4 GHz and offers excellent VSWR of 1.21:1.

Our SMA male connector PE4003 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 | | | 1.21:1 | |
| Operating Voltage (AC) | | | 335 | Vrms |

Mechanical Specifications

Size

| | |
|---------------|---------------------------------|
| Length | 0.87 in [22.1 mm] |
| Width/Dia. | 0.315 in [8.00 mm] |
| Height | 4.2 in [106.68 mm] |
| Weight | 0.012 lbs [5.44 g] |
| Mating Torque | 3 to 5 in-lbs [0.34 to 0.57 Nm] |

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/Crimp Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch PE4003](#)



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Material Specifications

| Description | Material | Plating |
|--------------|----------|---------------------------|
| Contact | Brass | Gold 30 µin minimum |
| Insulation | PTFE | |
| Body | Brass | Nickel 100 µin minimum |
| Coupling Nut | Brass | Nickel 100 µin minimum |
| Crimp Sleeve | Brass | Nickel |

Environmental Specifications

Temperature

Operating Range -65 to +165 deg C

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

Plotted and Other Data

Notes:

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

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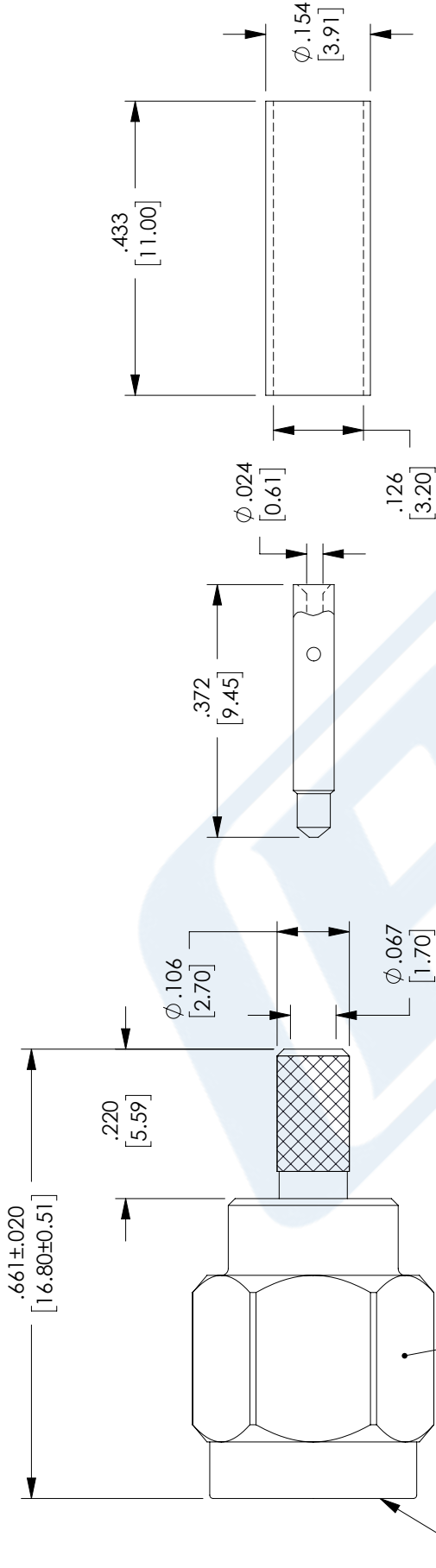
URL: <https://www.pasternack.com/sma-male-rg174-rg316-lmr-100-pe-b100-pe-c100-connector-pe4003-p.aspx>

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PE4003 CAD Drawing

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

| REVISIONS | | | |
|-----------|---------------------|------------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| B | PCR PE4003 20220524 | 06/03/2022 | SRAUTUS |



RECOMMENDED STRIPPING DIMENSIONS

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

REV B

ITEM NO. PE4003

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.

PE PASTERNAK an INFINITE brand

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Fax: 1.949.261.7451
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E-mail: sales@pasternack.com

SIZE A CAGE CODE 53919 DRAWN BY DFRISIELLO ITEM NO. PE4003 REV B

NOTES:
CRIMP SIZES REQUIRED:
FERRULE: .134 [3.40] HEX CRIMP
CONTACT: .036 [0.92] SQUARE CRIMP

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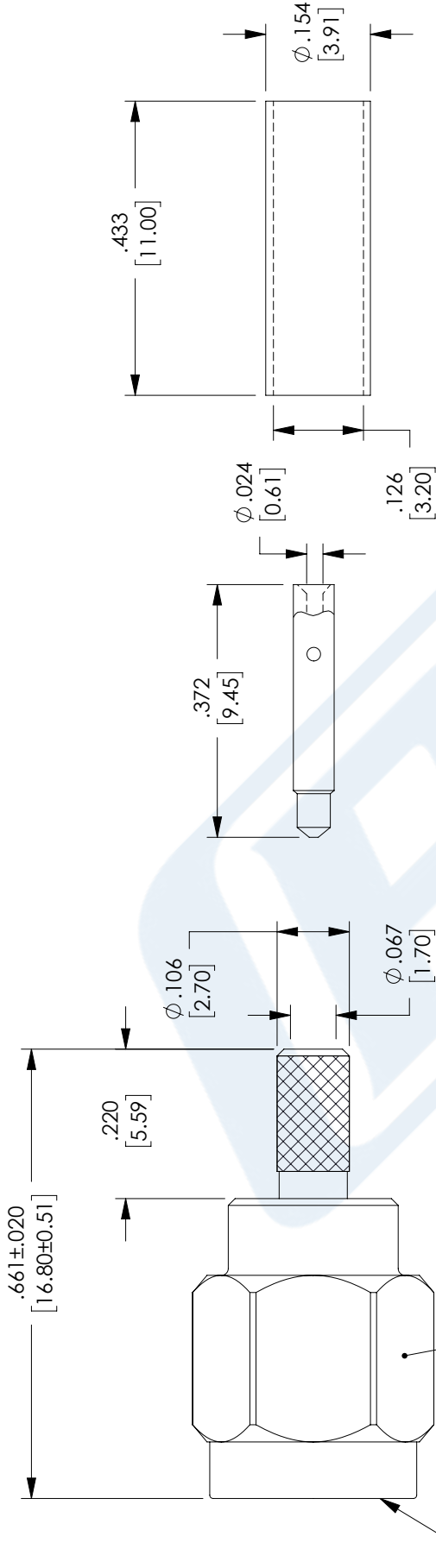
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| B | PCR PE4003 20220524 | 06/03/2022 | SRAUTUS |



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| <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.</p> | <p>PE PASTERNAK an INFINITE brand</p> <p>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</p> | <p>SHEET 1 OF 1</p> <p>SCALE N/A</p> |
| | <p>ITEM NO. PE4003</p> | <p>REV B</p> |



LMR-100-UF Ultra Flex version of the 100 series Low Loss Coax

RF Cables Technical Data Sheet



LMR-100A-UF

Times Microwave Systems Coax Cable Specification

Configuration

- Low Loss, Outdoor Flexible Cable
- 2 Shield(s)

Features

- Ultra Flexible Coax with Stranded Center Conductor
- Max Operating Frequency of 5.8 GHz
- Phase Velocity 66% VoP
- Max Operating Temperature +85°C
- TPE Jacket
- Min Install Bend Radius of 0.25 inches

Applications

- RF Test Systems
- Antenna Installs
- Laboratory Applications
- General Purpose RF Interconnect
- Jumper Assemblies

Description

LMR-100-UF Ultra Flex version of the 100 series Low Loss Coax from Times Microwave is part of the large product offering by Pasternack of radio frequency coaxial cable types specifically stocked to be ready for same-day shipment. Pasternack LMR-100-UF coax cable is manufactured in an ultra flexible design and has a 50 Ohm impedance. This low loss and ultra flexible 50 Ohm coax cable LMR-100-UF is constructed with a 0.110 inch diameter and Black TPE jacket.

LMR-100-UF flexible 50 Ohm coax cable with TPE jacket is rated for a 5.8 GHz maximum operating frequency. This 50 Ohm 0.110 inch diameter and low loss ultra flexible coax cable is built with an aluminum double shield count and RF shielding of 90 dB. Times Microwave LMR-100-UF TPE coax is constructed with PE dielectric and a maximum operating temperature of 85 degrees C. Pasternack's offering of LMR-100-UF coax cable provides specs for this wire on its RF coax cable LMR-100-UF datasheet.

LMR-100-UF cable is part of more than one million RF, microwave parts in stock at Pasternack. This Times Microwave low loss ultra flexible LMR-100-UF coax cable is ready to buy and can be shipped worldwide. Pasternack also maintains a wide selection of other radio frequency coaxial cable types that ship same-day from our warehouse as with the rest of our other RF/microwave components.

* LMR™ is a trademark of Times Microwave Systems.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|-----------|---------|------------|
| Frequency Range | DC | | 5.8 | GHz |
| Impedance | | 50 | | Ohms |
| Velocity of Propagation | | 66 | | % |
| Time Delay | | 1.54 5.05 | | ns/ft ns/m |
| Shielding Effectiveness | 90 | | | dB |
| Dielectric Withstanding Voltage (DC) | | | 500 | Vdc |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [LMR-100-UF Ultra Flex version of the 100 series Low Loss Coax LMR-100A-UF](#)



LMR-100-UF Ultra Flex version of the 100 series Low Loss Coax

RF Cables Technical Data Sheet



LMR-100A-UF

| | | |
|-------------------------------|---------------|--------------|
| Jacket Spark | 2,000 | Vrms |
| Inner Conductor DC Resistance | 81 | Ohms/1000ft |
| Outer Conductor DC Resistance | 9.5 | Ohms/1000ft |
| Nominal Capacitance | 30.8 [101.05] | pF/ft [pF/m] |
| Nominal Inductance | 0.077 [0.25] | uH/ft [uH/m] |
| Input Power (Peak) | 600 | Watts |

Performance by Frequency Band

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-------|------|-------|-------|------|----------|
| Frequency | 50 | 150 | 220 | 450 | 900 | MHz |
| Attenuation, Typ | 5.1 | 8.9 | 10.9 | 15.8 | 22.8 | dB/100ft |
| | 16.73 | 29.2 | 35.76 | 51.84 | 74.8 | dB/100m |
| Input Power (CW), Max | 180 | 100 | 83 | 57 | 39 | Watts |

| Description | F6 | F7 | F8 | F9 | F10 | Units |
|-----------------------|-------|--------|--------|--------|-------|----------|
| Frequency | 1.5 | 1.8 | 2 | 2.5 | 5.8 | GHz |
| Attenuation, Typ | 30.1 | 33.2 | 35.2 | 39.8 | 64.1 | dB/100ft |
| | 98.75 | 108.92 | 115.49 | 130.58 | 210.3 | dB/100m |
| Input Power (CW), Max | 29 | 27 | 25 | 22 | 13 | Watts |

Mechanical Specifications

| | |
|---------------------------------|---------------------------|
| Diameter | 0.11 in 2.79 mm |
| Weight | 0.0092 lbs/ft [0.01 Kg/m] |
| 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 [0.14 N-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, 1 Strand | 0.018 in [0.46 mm] |

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LMR-100-UF Ultra Flex version of the 100 series Low Loss Coax

RF Cables Technical Data Sheet



LMR-100A-UF

| | | |
|----------------|---------------|-------------------|
| Conductor Type | Solid | |
| Dielectric | PE | 0.06 in [1.52 mm] |
| First Shield | Aluminum Tape | [] |
| Second Shield | Tinned Copper | [] |
| Jacket | TPE, Black | 0.11 in [2.79 mm] |

Environmental Specifications

Temperature

| | |
|--------------------|------------------|
| Operating Range | -40 to +85 deg C |
| Installation Range | -40 to +85 deg C |
| Storage Range | -70 to +85 deg C |

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

Plotted and Other Data

Notes:

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URL: <https://www.pasternack.com/low-loss-flexible-lmr-100a-uf-tpe-jacket-aluminum-tape-over-tinned-copper-outer-conductor-double-shielded-lmr-100a-uf-p.aspx>

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| A | INITIAL RELEASE | 06-04-2021 |
| | | APPROVED SELLIS |



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ITEM NO. **LMR-100A-UF**

SIZE **A** CAGE CODE **53919** DRAWN BY **MVEERAPPAN**

THIRD-ANGLE PROJECTION

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SHEET **1** OF **1**

SCALE **N/A**

REV **A**