

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



RF Connectors Technical Data Sheet

PE45527

Configuration

- TNC Male Connector
- 50 Ohms
- Straight Body Geometry

- Connector Interface Types: RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch

Features

- Max. Operating Frequency 3 GHz
- Good VSWR of 1.3:1

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

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE45527 TNC male connector with crimp/solder 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 TNC male connector operates up to a maximum frequency of 3 GHz and offers good VSWR of 1.3:1.

Our TNC male connector PE45527 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 | | | 1.3:1 | |
| Operating Voltage (AC) | | | 500 | Vrms |

Mechanical Specifications

Size

Length
Width/Dia.

0.88 in [22.35 mm]
0.571 in [14.50 mm]

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/Crimp Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch PE45527](#)



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

RF Connectors Technical Data Sheet

PE45527

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:

TNC 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.

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/Crimp Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch PE45527](#)

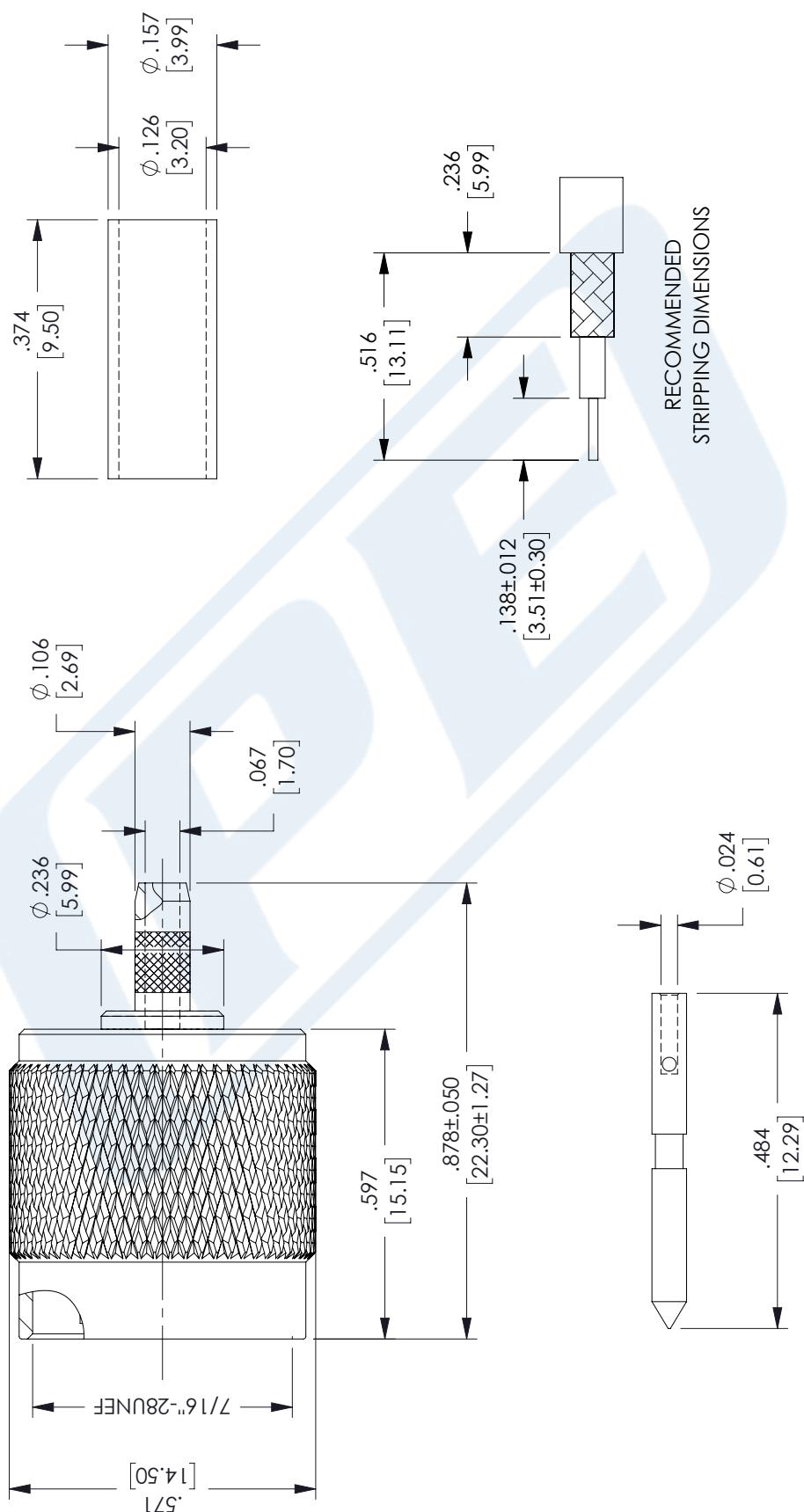
URL: <https://www.pasternack.com/tnc-male-rg174-rg316-lmr-100-pe-b100-pe-c100-connector-pe45527-p.aspx>

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.

PE45527 CAD Drawing

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

| REVISIONS | | | | |
|-----------|-----------------|------------|----------|--|
| REV. | DESCRIPTION | DATE | APPROVED | |
| A | INITIAL RELEASE | 07/06/2021 | SRAUTUS | |



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| Phone: 1.949.261.1920 | Fax: 1.949.261.7451 | | |
| Website: www.pasternack.com | E-mail: sales@pasternack.com | | |
| SIZE | CAGE CODE | DRAWN BY | ITEM NO. |
| A | 53919 | MVEERAPPAN | PE45527 |
| SCALE | N/A | REV | A |

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS
TOLERANCES:

| | |
|------------------------------|----------------------------|
| X = ± 2 [5.08] | FRACTIONS |
| XXX = ± .02 [.51] | ± 1/32 |
| XXX = ± .005 [.13] | ANGLES ± 1° |
| CABLE LENGTH (L) TOLERANCES: | |
| L ≤ 12 [305] | 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 = 450L / -0 | 300 [7620] < L = 450L / -0 |

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TNC Male Right Angle Connector Clamp/Solder Attachment For RG174, RG316, RG188



RF Connectors Technical Data Sheet

PE4454

Configuration

- TNC Male Connector
- 50 Ohms

- Right Angle Body Geometry
- Connector Interface Types: RG174, RG316, RG188

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4454 TNC male right angle connector with clamp/solder attachment for RG174, RG316 and RG188 is part of our full line of RF components available for same-day shipping. Its right angle body geometry allows for easier connections in tight spaces.

Our TNC male right angle connector PE4454 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

| | |
|--------|---------------------|
| Weight | 0.096 lbs [43.54 g] |
|--------|---------------------|

Material Specifications

| Description | Material | Plating |
|-------------|----------|---------|
| Body | Brass | Nickel |

Environmental Specifications

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 Right Angle Connector Clamp/Solder Attachment For RG174, RG316, RG188 PE4454](#)

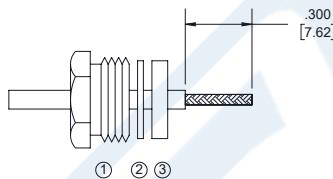
TNC Male Right Angle Connector Clamp/Solder Attachment For RG174, RG316, RG188



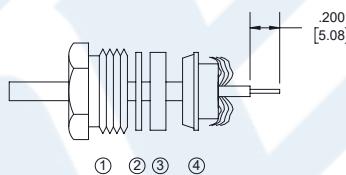
RF Connectors
Technical Data Sheet

PE4454

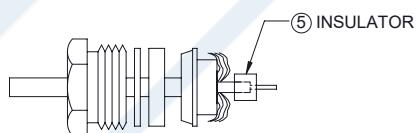
Assembly Instruction



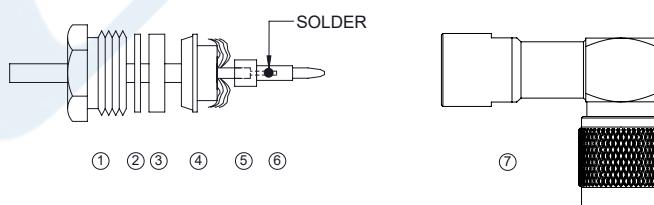
1. SLIDE CLAMP NUT ①, WASHER ② & GASKET ③ OVER CABLE. STRIP CABLE AS SHOWN. DO NOT NICK BRAID WHILE CUTTING JACKET. TAPER END OF BRAID TO PERMIT ASSEMBLY OF CLAMP.



2. SLIDE BRAID CLAMP ④ OVER BRAID & SEAT AGAINST CABLE. FORM BRAID OVER CLAMP NUT. TRIM BRAID BACK TO SHOULDER. CUT DIELECTRIC & CENTER CONDUCTOR TO DIMENSION SHOWN. DO NOT NICK CENTER CONDUCTOR.



3. SLIDE INSULATOR ⑤ AGAINST THE BRAID CLAMP. SOFT SOLDER CONTACT ⑥ TO CENTER CONDUCTOR. REMOVE EXCESS SOLDER. DO NOT OVER HEAT DIELECTRIC. INSERT CABLE ASSEMBLY INTO BODY ⑦ & TIGHTEN BY CLAMP NUT ONLY.



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male Right Angle Connector Clamp/Solder Attachment For RG174, RG316, RG188 PE4454](#)



TNC Male Right Angle Connector Clamp/Solder Attachment For RG174, RG316, RG188

RF Connectors Technical Data Sheet

PE4454

TNC Male Right Angle Connector Clamp/Solder Attachment For RG174, RG316, RG188 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 Right Angle Connector Clamp/Solder Attachment For RG174, RG316, RG188 PE4454](https://www.pasternack.com/tnc-male-standard-rg174-rg316-rg188-connector-pe4454-p.aspx)

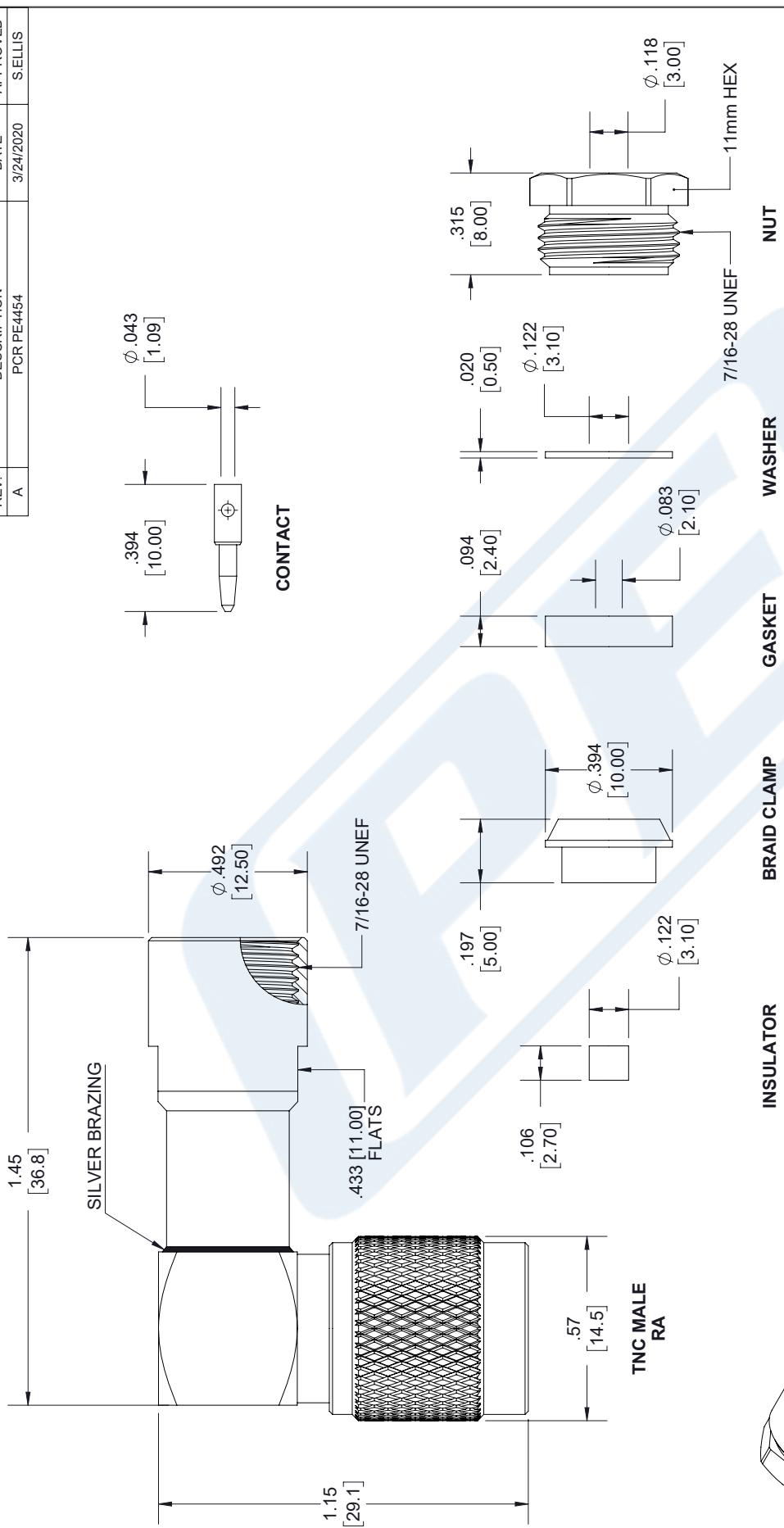
URL: <https://www.pasternack.com/tnc-male-standard-rg174-rg316-rg188-connector-pe4454-p.aspx>

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PE4454 CAD Drawing

TNC Male Right Angle Connector Clamp/Solder Attachment For RG174, RG316, RG188

| REVISIONS | | | |
|-----------|-------------|-----------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | PCR PE4454 | 3/24/2020 | S.ELLIS |



| | | | |
|--|---|----------|----------|
| UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS | | | |
| TOLERANCES: | | | |
| X = $\pm .2$ XXX = $\pm .02$ XXX = $\pm .005$ | FRACTIONS $.5[08]$ $.5[1]$ $.5[13]$ | | |
| L = $\pm .132$ | ANGLES $\pm 1^\circ$ | | |
| L = $\pm .12$ | CABLE LENGTH (L) TOLERANCES: | | |
| 12 [305] < L \leq 60 [1524] = $+2[51] / -0$ | L = $+1[25] / -0$ | | |
| 60 [1524] < L \leq 120 [3048] = $+4[102] / -0$ | 120 [3048] < L \leq 300 [7620] = $+6[152] / -0$ | | |
| 300 [7620] < L = $+5\% L / -0$ | 300 [7620] < L = $+5\% L / -0$ | | |
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| SIZE | CAGE CODE | DRAWN BY | ITEM NO. |
| A | 53919 | K. DANG | PE4454 |
| SCALE | 1 | OF | 2 |
| REV | N/A | | A |



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

RF Cables Technical Data Sheet


TIMES
An Amphenol Company

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-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-Ultra Flex 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-Ultra Flex is constructed with a 0.110 inch diameter and Black TPE jacket.

LMR-100-Ultra Flex 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-Ultra Flex coax is constructed with PE dielectric and a maximum operating temperature of 85 degrees C. Pasternack's offering of LMR-100-Ultra Flex coax cable provides specs for this wire on its RF coax cable LMR-100-Ultra Flex datasheet.

LMR-100-Ultra Flex coax cable is part of more than one million RF, microwave parts in stock at Pasternack. This Times Microwave low loss ultra flexible LMR-100-Ultra Flex 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-Ultra Flex version of the 100 series Low Loss Coax LMR-100A-UF](#)



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

RF Cables Technical Data Sheet


TIMES
An Amphenol Company

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 | 0.008 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 | 0.018 in [0.46 mm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [LMR-100-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

| | | |
|----------------|---------------|--------------------|
| Conductor Type | Stranded | |
| Dielectric | PE | 0.06 in [1.52 mm] |
| First Shield | Aluminum Tape | 0.068 in [1.73 mm] |
| Second Shield | Tinned Copper | 0.083 in [2.11 mm] |
| Jacket | TPE, Black | 0.11 in [2.79 mm] |

Environmental Specifications

Temperature

Operating Range
Installation Range
Storage Range

-40 to +85 deg C
-40 to +85 deg C
-70 to +85 deg C

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

Plotted and Other Data

Notes:

LMR-100-UF Ultra Flex version of the 100 series Low Loss Coax 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: [LMR-100-UF Ultra Flex version of the 100 series Low Loss Coax LMR-100A-UF](#)

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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| REVISIONS | | | | | |
|-----------|-----------------|------------|----------|--|--|
| REV. | DESCRIPTION | DATE | APPROVED | | |
| A | INITIAL RELEASE | 06-04-2021 | SELLIS | | |

UNLESS OTHERWISE SPECIFIED
 LEADING DIMENSIONS ARE INCHES
 DIMENSIONS IN [] ARE MILLIMETERS

| | | |
|------------------|--------|----------------------|
| TOLERANCES: | | |
| X = ± 2 | [5.08] | FRACTIONS |
| XXX = $\pm .02$ | [.51] | $\pm 1/32$ |
| XXX = $\pm .005$ | [.13] | ANGLES $\pm 1^\circ$ |

CABLE LENGTH (L) TOLERANCES:

| | |
|----------------------------------|---|
| L \leq 12 [305] | L \leq 12 [305] = $+1[28]$ / -0 |
| 12 [305] < L \leq 60 [1524] | 12 [305] < L \leq 60 [1524] = $+2[51]$ / -0 |
| L \leq 120 [3048] | L \leq 120 [3048] = $+4[102]$ / -0 |
| 120 [3048] < L \leq 300 [7620] | 120 [3048] < L \leq 300 [7620] = $+6[152]$ / -0 |
| L > 300 [7620] | L > 300 [7620] = $+5[6]$ / -0 |

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 E-mail: sales@pasternack.com

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|------|-----------|------------|-------------|-------|
| SIZE | CAGE CODE | DRAWN BY | ITEM NO. | |
| A | 53919 | MVEERAPPAN | LMR-100A-UF | REV A |

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

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