

BNC Female Bulkhead Mount Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch, .480 inch D Hole



## RF Connectors Technical Data Sheet

PE4106

### Configuration

- BNC Female Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch
- Bulkhead

### Features

- Max. Operating Frequency 1 GHz
- Good VSWR of 1.6:1
- Gold Plated Brass Contact
- 30  $\mu$ in minimum contact plating

### Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

### Description

Pasternack's PE4106 BNC female bulkhead connector with crimp/solder attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100 and .100 inch (.480 inch D hole) is part of our full line of RF components available for same-day shipping. Our BNC female connector operates up to a maximum frequency of 1 GHz and offers good VSWR of 1.6:1. This BNC bulkhead connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Our BNC female bulkhead connector PE4106 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                                 |         |         | 1.6:1   |       |
| Operating Voltage (AC)               |         | 500     |         | Vrms  |
| Dielectric Withstanding Voltage (AC) |         |         | 1,500   | Vrms  |

### Mechanical Specifications

| Size       |                     |
|------------|---------------------|
| Length     | 1.42 in [36.07 mm]  |
| Width/Dia. | 0.689 in [17.50 mm] |
| Weight     | 0.045 lbs [20.41 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Female Bulkhead Mount Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch, .480 inch D Hole PE4106](#)



## BNC Female Bulkhead Mount Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch, .480 inch D Hole

### RF Connectors Technical Data Sheet

**PE4106**

#### Material Specifications

| Description  | Material | Plating                       |
|--------------|----------|-------------------------------|
| Contact      | Brass    | Gold<br>30 $\mu$ m minimum    |
| Insulation   | PTFE     |                               |
| Body         | Brass    | Nickel<br>100 $\mu$ m minimum |
| Crimp Sleeve | Brass    | Nickel                        |
| Washer       | Steel    | Nickel                        |

#### Environmental Specifications

##### Temperature

Operating Range

-65 to +165 deg C

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

#### Plotted and Other Data

Notes:

BNC Female Bulkhead Mount Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch, .480 inch D Hole 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/bnc-female-standard-rg174-rg316-rg188-connector-pe4106-p.aspx>

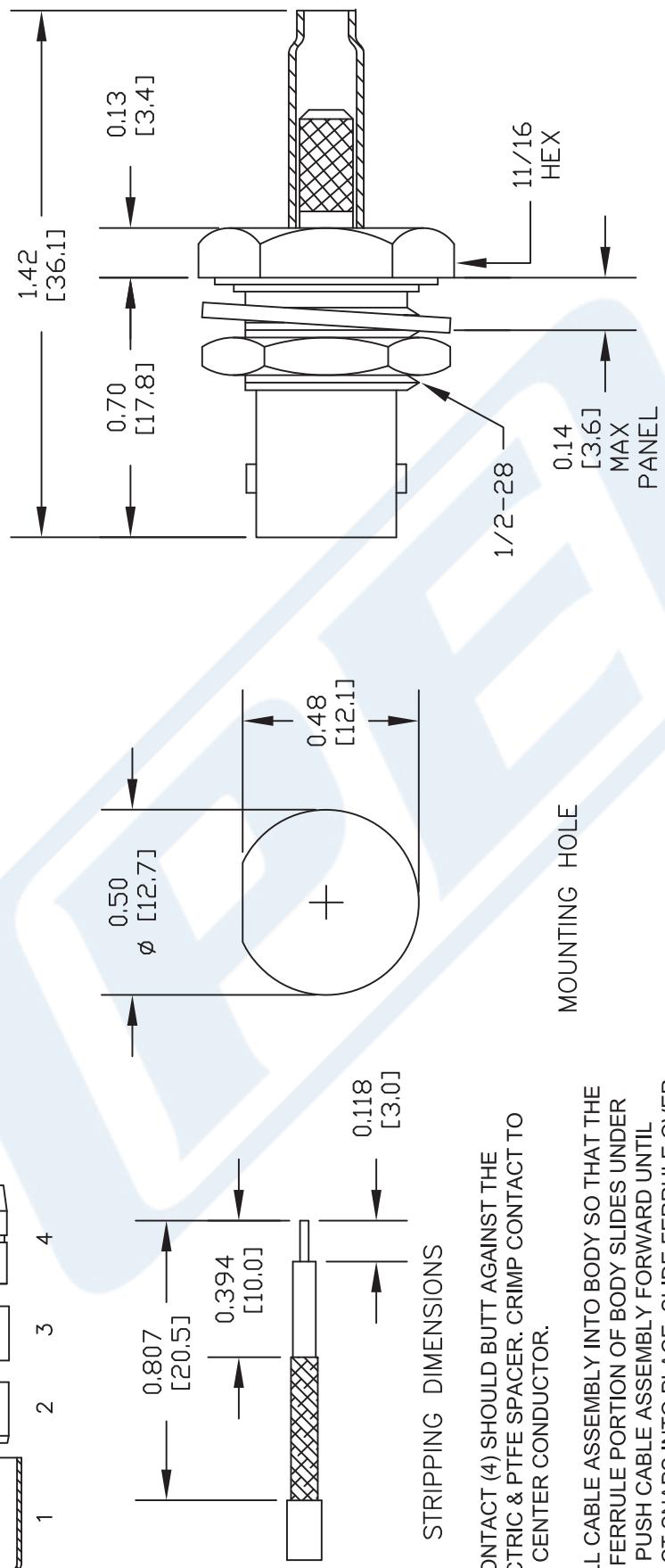
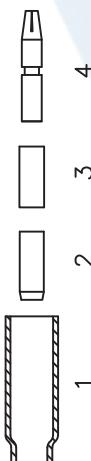
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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.

# PE4106 CAD Drawing

BNC Female Bulkhead Mount Connector Crimp/Solder Attachment for RG174, RG316, RG188, LMR-100, PE-B100, PE-C100, .100 inch, .480 inch D Hole

## 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.



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 UNTIL CONTACT SNAPS INTO PLACE. SLIDE FERRULE OVER BRAID AND UP AGAINST CONNECTOR BODY & CRIMP.

## CRIMP SIZES REQUIRED

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

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DWG TITLE

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. FITTINGS, MII, C-17 AND EQUIVALENT CABLES.

|        |                |                 |           |        |      |
|--------|----------------|-----------------|-----------|--------|------|
| REV. B | FSCM NO. 53919 | CAD FILE 072712 | SCALE N/A | SIZE A | 2231 |
|--------|----------------|-----------------|-----------|--------|------|

# FAKRA Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE- B100, PE-C100, LMR-100, Curry Color



## RF Connectors Technical Data Sheet

**PE45404K**

### Configuration

- FAKRA Plug Connector
- 50 Ohms
- Straight Body Geometry
- RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100 Interface Type
- Crimp/Solder Attachment

### Features

- Max. Operating Frequency 4 GHz
- Good VSWR of 1.3:1
- Gold Plated Phosphor Bronze Contact

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE45404K FAKRA plug connector with crimp/solder attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100 and LMR-100 is part of our full line of RF components available for same-day shipping. Our FAKRA plug connector operates up to a maximum frequency of 4 GHz and offers good VSWR of 1.3:1.

Our FAKRA plug connector PE45404K 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      |         | 4       | GHz   |
| VSWR                                 |         |         | 1.3:1   |       |
| Operating Voltage (AC)               |         |         | 335     | Vrms  |
| Dielectric Withstanding Voltage (AC) |         |         | 800     | Vrms  |
| Inner Conductor DC Resistance        |         |         | 6       | mOhms |
| Outer Conductor DC Resistance        |         |         | 2.5     | mOhms |
| Insulation Resistance                | 1,000   |         |         | MOhms |

### Mechanical Specifications

#### Size

|            |                    |
|------------|--------------------|
| Length     | 0.035 in [0.89 mm] |
| Width/Dia. | 0.37 in [9.40 mm]  |
| Height     | 0.433 in [11 mm]   |
| Weight     | 0.005 lbs [2.27 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [FAKRA Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Curry Color PE45404K](#)

FAKRA Plug Connector Crimp/Solder Attachment  
for RG174, RG316, RG188, .100 inch, PE-  
B100, PE-C100, LMR-100, Curry Color



## RF Connectors Technical Data Sheet

PE45404K

### Material Specifications

| Description     | Material        | Plating |
|-----------------|-----------------|---------|
| Contact         | Phosphor Bronze | Gold    |
| Insulation      | PTFE            |         |
| Outer Conductor | Brass           | Nickel  |
| Body            | Plastic         |         |

### Environmental Specifications

#### Temperature

Operating Range

-40 to +85 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: [FAKRA Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Curry Color PE45404K](#)

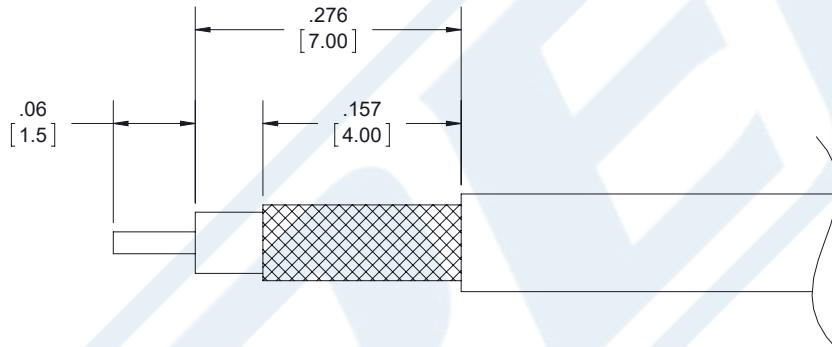
FAKRA Plug Connector Crimp/Solder Attachment  
for RG174, RG316, RG188, .100 inch, PE-  
B100, PE-C100, LMR-100, Curry Color



RF Connectors  
Technical Data Sheet

PE45404K

#### Assembly Instruction



#### ASSEMBLY PROCEDURES

1. STRIP CABLE TO THE DIMENSIONS SHOWN, DO NOT NICK CENTER CONDUCTOR OR BRAID.
2. PUSH CENTER CONDUCTOR FULLY INTO CONTACT AND SOLDER, REMOVE ANY EXCESS SOLDER.
3. FLARE BRAID AND INSERT CONTACT INTO THE BODY UNTIL IT SEATS.
4. SLIDE FERRULE OVER BRAID AND CRIMP WITH CRIMP TOOL.

#### CRIMP SIZE REQUIRED

- CONTACT: SOLDER.
- FERRULE: .128 HEX CRIMP TOOL.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [FAKRA Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Curry Color PE45404K](#)

FAKRA Plug Connector Crimp/Solder Attachment  
for RG174, RG316, RG188, .100 inch, PE-  
B100, PE-C100, LMR-100, Curry Color



RF Connectors  
Technical Data Sheet

PE45404K

FAKRA Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Curry Color 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.

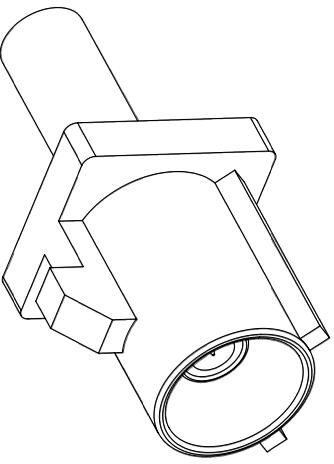
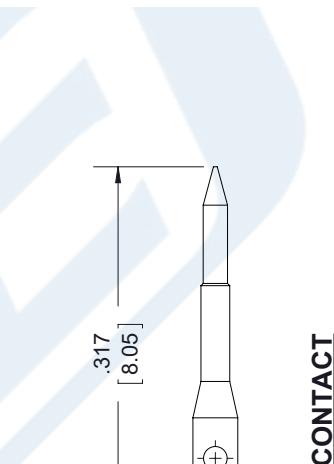
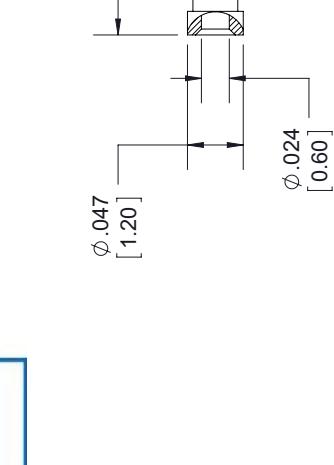
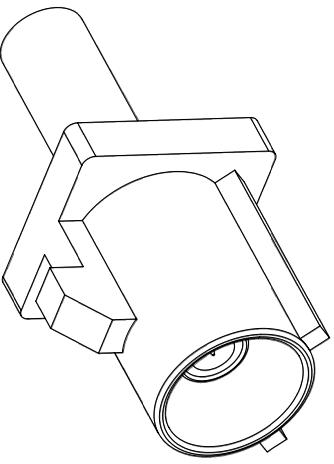
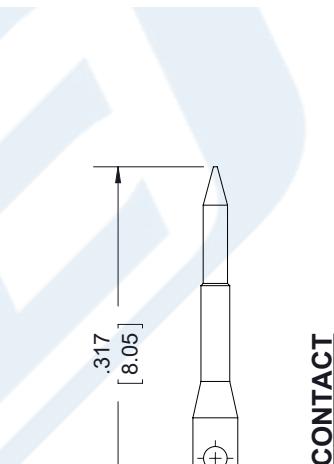
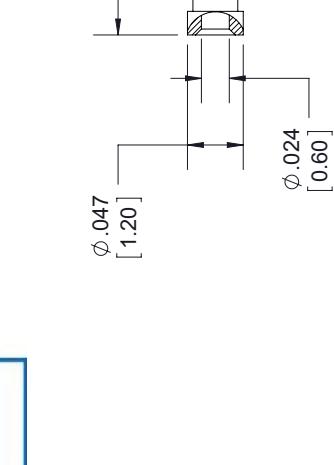
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URL: <https://www.pasternack.com/fakra-plug-rg174-rg316-.100-pe-b100-pe-c100-connector-pe45404k-p.aspx>

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# PE45404K CAD Drawing

FAKRA Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, .100 inch, PE-B100, PE-C100, LMR-100, Curry Color

| FAKRA CONFIGURATION |   |            |  | DWG TITLE<br>PE45404K  | NOTES:<br>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.<br>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.<br>3. DIMENSIONS ARE IN INCHES [mm]. |
|---------------------|---|------------|--|--|---|
| CODING              | JACK  | COLOR      | APPLICATION                              |  |   |
| A                   |    | BLACK      | RADIO WITH PHANTOM SUPPLY                |    |   |
| B                   |    | WHITE      | RADIO WITHOUT PHANTOM SUPPLY             |   |   |
| C                   |    | BLUE       | GPS: TELEMATICS OR NAVIGATION            |  |   |
| D                   |    | BORDEAUX   | GSM: CELLULAR PHONE                      |  |   |
| H                   |    | VIOLET     | GPS: TELEMATICS AND NAVIGATION           |    |   |
| I                   |   | BEIGE      | BLUETOOTH                                |   |   |
| J                   |  | CURRY      | RADIO WITH IF OUTPUT (ANTENNA DIVERSITY) |  |   |
| Z                   |  | WATER BLUE | NEUTRAL CODING                           |  |   |

\*STANDARD TOLERANCES  
ONLY TO DIMENSIONS IN INCHES  
X ±0.2  
.XX ±0.01  
.XXX ±0.005

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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**

#### 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  
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

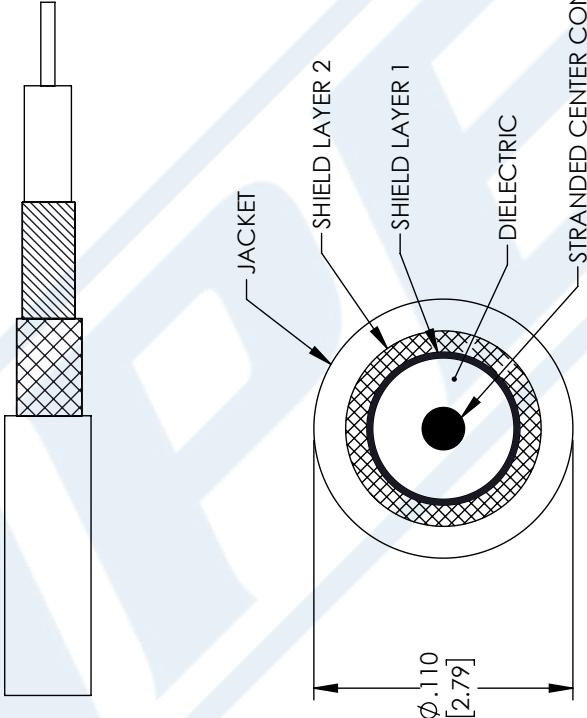
Notes:

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.

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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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| REV. A DESCRIPTION INITIAL RELEASE 06-04-2021 APPROVED SELLIS  |          |                             |  |  |  |              |          |                  |                 |         |            |                  |         |                             |
|--|----------|-----------------------------|--|--|--|--------------|----------|------------------|-----------------|---------|------------|------------------|---------|-----------------------------|
| REVISIONS  |          |                             |  |  |  |              |          |                  |                 |         |            |                  |         |                             |
|   |          |                             |  |  |  |              |          |                  |                 |         |            |                  |         |                             |
| <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>PASTERNACK</b><br/> <i>an INFINITE® brand</i> </div> <div style="display: inline-block; vertical-align: top; text-align: left; margin-left: 10px;"> <b>THIRD-ANGLE PROJECTION</b><br/> <br/>         THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNACK CORPORATION. ALL RIGHTS RESERVED.<br/>         SHEET 1 OF 1<br/>         SCALE N/A<br/>         REV A       </div>  |          |                             |  |  |  |              |          |                  |                 |         |            |                  |         |                             |
| <div style="display: inline-block; vertical-align: top; text-align: left; margin-right: 20px;">         UNLESS OTHERWISE SPECIFIED<br/>         LEADING DIMENSIONS ARE INCHES<br/>         DIMENSIONS IN [ ] ARE MILLIMETERS<br/> <b>TOLERANCES:</b><br/> <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"><math>X = \pm .2</math></td> <td style="width: 30%;"><math>[5.08]</math></td> <td style="width: 40%;"><b>FRACTIONS</b></td> </tr> <tr> <td><math>.XX = \pm .02</math></td> <td><math>[.51]</math></td> <td><math>\pm 1/32</math></td> </tr> <tr> <td><math>XXX = \pm .005</math></td> <td><math>[.13]</math></td> <td><b>ANGLES</b> <math>\pm 1^\circ</math></td> </tr> </table> <b>CABLE LENGTH (L) TOLERANCES:</b><br/> <math>L \leq 12</math> [305] = <math>+1.25</math> [-0]<br/> <math>12</math> [305] <math>&lt; L \leq 60</math> [1524] = <math>+2.5</math> [-0]<br/> <math>60</math> [1524] <math>&lt; L \leq 120</math> [3048] = <math>+4.1</math> [-0.2] / -0<br/> <math>120</math> [3048] <math>&lt; L \leq 300</math> [7620] = <math>+6.152</math> [-0.2] / -0<br/> <math>300</math> [7620] <math>&lt; L \leq +586</math> [-0]       </div> <div style="display: inline-block; vertical-align: top;"> <b>ALL DIMENSIONS SHOWN</b><br/> <b>ARE FOR REFERENCE ONLY.</b><br/> <b>THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE</b><br/> <b>WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.</b> </div> |          |                             |  |  |  | $X = \pm .2$ | $[5.08]$ | <b>FRACTIONS</b> | $.XX = \pm .02$ | $[.51]$ | $\pm 1/32$ | $XXX = \pm .005$ | $[.13]$ | <b>ANGLES</b> $\pm 1^\circ$ |
| $X = \pm .2$   | $[5.08]$ | <b>FRACTIONS</b>            |  |  |  |              |          |                  |                 |         |            |                  |         |                             |
| $.XX = \pm .02$  | $[.51]$  | $\pm 1/32$                  |  |  |  |              |          |                  |                 |         |            |                  |         |                             |
| $XXX = \pm .005$   | $[.13]$  | <b>ANGLES</b> $\pm 1^\circ$ |  |  |  |              |          |                  |                 |         |            |                  |         |                             |