



N Male to N Female Bulkhead Low Loss Cable Using LMR-400-UF Coax

TECHNICAL DATA SHEET

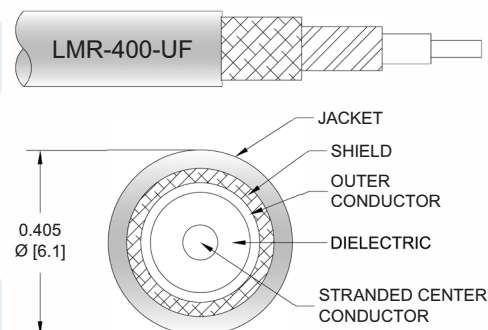
PE3W05317

Configuration

- Connector 1: N Male
- Connector 2: N Female Bulkhead
- Cable Type: LMR-400-UF
- Coax Flex Type: Flexible

Features

- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- TPE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W05317 type N male to type N female bulkhead cable using LMR-400-UF coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack type N to type N cable assembly has a male to female gender configuration with 50 ohm flexible LMR-400-UF coax. Our RF cable assembly with type N bulkhead interface 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. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to N Female Bulkhead Low Loss Cable Using LMR-400-UF Coax PE3W05317](#)



N Male to N Female Bulkhead Low Loss Cable Using LMR-400-UF Coax

TECHNICAL DATA SHEET

PE3W05317

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------------|---------|--------------|---------|----------------------------------|
| Velocity of Propagation | | 85 | | % |
| RF Shielding | 90 | | | dB |
| Group Delay | | 1.2 [3.94] | | ns/ft [ns/m] |
| Capacitance | | 23.9 [78.41] | | pF/ft [pF/m] |
| Inductance | | 0.06 [0.2] | | uH/ft [uH/m] |
| DC Resistance Inner Conductor | | 1.07 [3.51] | | Ω /1000ft [Ω /Km] |
| DC Resistance Outer Conductor | | 1.65 [5.41] | | Ω /1000ft [Ω /Km] |
| Jacket Spark | | | 8,000 | Vrms |

Mechanical Specifications

Cable Assembly

Weight 0.289 lbs [131.09 g]

Cable

Cable Type LMR-400-UF
 Impedance 50 Ohms
 Inner Conductor Type Stranded
 Inner Conductor Material and Plating Copper
 Dielectric Type PE (F)
 Number of Shields 2
 Shield Layer 1 Aluminum Tape
 Shield Layer 2 Tinned Copper Braid
 Jacket Material TPE, Black
 Jacket Diameter 0.405 in [10.29 mm]

One Time Minimum Bend Radius 1 in [25.4 mm]
 Repeated Minimum Bend Radius 4 in [101.6 mm]
 Bending Moment 0.38 lbs-ft [0.52 N-m]
 Flat Plate Crush 20 lbs/in [0.36 Kg/mm]
 Tensile Strength 160 lbs [72.57 Kg]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to N Female Bulkhead Low Loss Cable Using LMR-400-UF Coax PE3W05317](#)



N Male to N Female Bulkhead Low Loss
Cable Using LMR-400-UF Coax

TECHNICAL DATA SHEET

PE3W05317

Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|-----------------|----------------------------|
| Type | N Male Threaded | N Female Bulkhead Threaded |
| Specification | MIL-STD-348 | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Mating Cycles | | 500 |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Contact Plating Specification | ASTM-B488 | 30 µin minimum |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Nickel | Brass, Tri-Metal |
| Body Plating Specification | ASTM-B689 | |
| Coupling Nut Material and Plating | Brass, Nickel | |
| Coupling Nut Plating Specification | ASTM-B689 | |

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: [N Male to N Female Bulkhead Low Loss Cable Using LMR-400-UF Coax PE3W05317](#)



N Male to N Female Bulkhead Low Loss
Cable Using LMR-400-UF Coax

TECHNICAL DATA SHEET

PE3W05317

How to Order

Part Number Configuration:

PE3W05317

- **xx**

uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3W05317-12 = 12 inches long cable
PE3W05317-100cm = 100 cm long cable

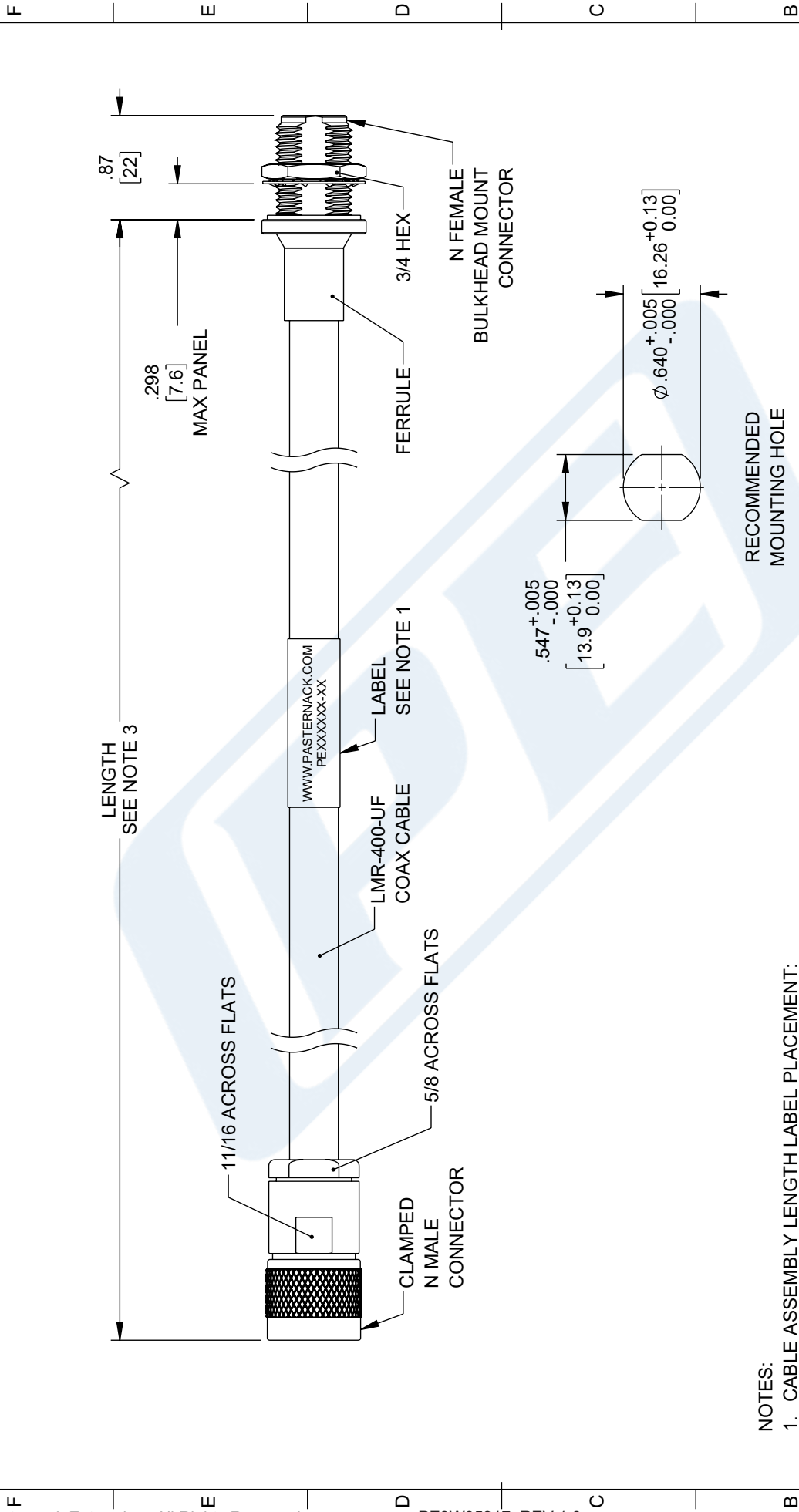
N Male to N Female Bulkhead Low Loss Cable Using LMR-400-UF Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to N Female Bulkhead Low Loss Cable Using LMR-400-UF Coax PE3W05317](#)

URL: <https://www.pasternack.com/n-male-to-n-female-bulkhead-low-loss-cable-using-lmr-400-uf-pe3w05317-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.



| ZONE | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED |
|------|-----|-----------------|------------|------------|----------|
| | A | INITIAL RELEASE | 11/10/2023 | KGLEBOVA | AGANWANI |



NOTES:

- CABLE ASSEMBLY LENGTH LABEL PLACEMENT:
36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED.
LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
- CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
- CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

| | | | | | |
|--|--------------------|---|-----------------------|--|--|
| UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [] ARE MILLIMETERS. | |   | | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 | |
| TOLERANCES: | | | | | |
| X = ±.2 [5] | | FRACTIONS ± 1/32 | | | |
| XX = ±.02 [0.5] | | ANGLES ± 1° | | | |
| XXX = ±.005 [0.13] | | | | | |
| CABLE LENGTH TOLERANCES: | | | | | |
| s12 [305] = +1 [25] / -0 | | | | | |
| >12 [305] ≤ 60 [1524] = +2 [51] / -0 | | | | | |
| >60 [1524] ≤ 120 [3048] = +4 [102] / -0 | | | | | |
| >120 [3048] ≤ 300 [7620] = +6 [152] / -0 | | | | | |
| >300 [7620] = +5% / -0 | | | | | |
| ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UN-DIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY. | | | | | |
| PE PASTERNAK® an INFINITI® brand | | Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920 | | DESCRIPTION CLAMPED N MALE TO N FEMALE BULKHEAD LOW LOSS CABLE USING LMR-400-UF COAX | |
| SIZE A | CAGE CODE 53919 | DRAWN BY KGLEBOVA | ITEM NO. PE3W05317 | REV A | |