

# Standard N Female Connector Crimp/Solder Attachment for LMR-400, PE-C400

**RF Connectors** Technical Data Sheet





# **Times Microwave Systems Connector Specification**

## Configuration

- N Female Connector
- MIL-STD-348
- 50 Ohms

- Straight Body Geometry
- Connector Interface Types: LMR-400, PE-C400

#### **Features**

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.3:1

Gold Plated Copper Contact

#### **Applications**

General Purpose Test

Custom Cable Assemblies

#### Description

Pasternack's TC-400-NF-X type N female connector with crimp/solder attachment for LMR-400 and PE-C400 is part of our full line of RF components available for same-day shipping. Our type N female connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.3:1.

Our type N female connector TC-400-NF-X 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      |         | 6       | GHz   |
| VSWR                          |         |         | 1.3:1   |       |
| Insertion Loss                |         |         | 0.1     | dB    |
| Operating Voltage (AC)        |         |         | 1,500   | Vrms  |
| Inner Conductor DC Resistance |         |         | 0.8     | mOhms |
| Outer Conductor DC Resistance |         |         | 0.4     | mOhms |
| Insulation Resistance         | 5,000   |         |         | MOhms |

#### **Mechanical Specifications**

Size

Length 1.56 in [39.62 mm] Width/Dia. 0.63 in [16.00 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Standard N Female Connector Crimp/Solder Attachment for LMR-400, PE-C400 TC-400-NF-X

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# Standard N Female Connector Crimp/Solder Attachment for LMR-400, PE-C400



# **RF** Connectors **Technical Data Sheet**



0.088 lbs [39.92 g]

Weight

#### **Material Specifications**

| Description     | Material | Plating   |
|-----------------|----------|-----------|
| Contact         | Copper   | Gold      |
| Insulation      | PTFE     |           |
| Outer Conductor | Brass    | Tri-Metal |
| Body            | Brass    | Tri-Metal |
|                 |          |           |

#### **Environmental Specifications**

**Temperature** 

**Operating Range** -55 to +155 deg C

US MIL-STD 202, Meth. 213, Cond. I Shock Vibration US MIL-STD 202, Meth. 204, Cond. B Thermal Shock US MIL-STD 202, Meth. 107, Cond. B

Compliance Certifications (see product page for current document)

#### Plotted and Other Data

Notes:

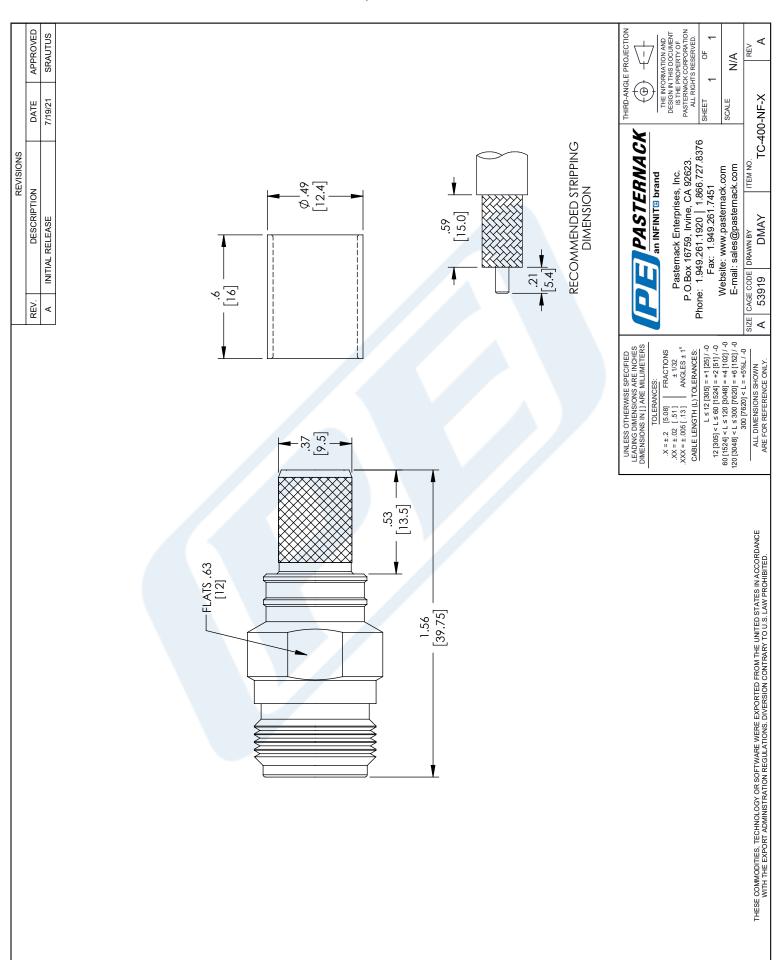
Standard N Female Connector Crimp/Solder Attachment for LMR-400, PE-C400 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Standard N Female Connector Crimp/Solder Attachment for LMR-400, PE-C400 TC-400-NF-X

URL: https://www.pasternack.com/n-female-Imr-400-pe-c400-connector-tc-400-nf-x-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.

# Standard N Female Connector Crimp/Solder Attachment for LMR-400, PE-C400







N Male Connector Crimp/Non-Solder Contact Attachment for LMR-400, PE-C400, PE-B400, PE-B405

**RF** Connectors Technical Data Sheet



# **Times Microwave Systems Connector Specification**

# Configuration

- N Male Connector
- 50 Ohms
- Straight Body Geometry

- Connector Interface Types: LMR-400, PE-C400, PE-B400, PE-B405
- 20.57 mm Hex

#### **Features**

- Max. Operating Frequency 6 GHz
- Excellent VSWR of 1.25:1

- Gold Plated Beryllium Bronze Contact
- 50µ in. minimum contact plating

#### **Applications**

General Purpose Test

Custom Cable Assemblies

#### Description

Pasternack's EZ-400-NMH-X type N male connector with crimp/non-solder contact attachment for LMR-400, PE-C400, PE-B400 and PE-B405 is part of our full line of RF components available for same-day shipping. Our type N male connector operates up to a maximum frequency of 6 GHz and offers excellent VSWR of 1.25:1.

Our type N male connector EZ-400-NMH-X 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      |         | 6       | GHz   |
| VSWR                          |         |         | 1.25:1  |       |
| Insertion Loss                |         |         | 0.05    | dB    |
| Operating Voltage (AC)        |         |         | 1,500   | Vrms  |
| Inner Conductor DC Resistance |         |         | 0.8     | mOhms |
| Outer Conductor DC Resistance |         |         | 0.4     | mOhms |
| Insulation Resistance         | 5,000   |         |         | MOhms |

#### **Mechanical Specifications**

Size

Length Width/Dia. 1.496 in [38 mm] 0.81 in [20.57 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Male Connector Crimp/Non-Solder Contact Attachment for LMR-400, PE-C400, PE-B400, PE-B405 EZ-400-NMH-X

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# N Male Connector Crimp/Non-Solder Contact Attachment for LMR-400, PE-C400, PE-B400, PE-B405

## **RF** Connectors **Technical Data Sheet**



Weight **Mating Torque**  0.096 lbs [43.54 g] 221 in-lbs [24.97 Nm]

#### **Material Specifications**

| Description  | Material         | Plating                       |  |  |
|--------------|------------------|-------------------------------|--|--|
| Contact      | Beryllium Bronze | Gold<br>50µ in. minimum       |  |  |
| Insulation   | PTFE             |                               |  |  |
| Body         | Brass            | Tri-Metal<br>100µ in. minimum |  |  |
| Coupling Nut | Brass            | Tri-Metal<br>100µ in. minimum |  |  |

#### **Environmental Specifications**

**Temperature** 

Operating Range -55 to +155 deg C

MIL-STD 202, Meth. 213, Cond.I Shock Vibration MIL-STD 202, Meth. 204, Cond.B Thermal Shock MIL-STD 202, Meth. 107, Cond.B

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 Connector Crimp/Non-Solder Contact Attachment for LMR-400, PE-C400, PE-B400, PE-B405 EZ-400-NMH-X

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# N Male Connector Crimp/Non-Solder Contact Attachment for LMR-400, PE-C400, PE-B400, PE-B405

### **RF Connectors** Technical Data Sheet



N Male Connector Crimp/Non-Solder Contact Attachment for LMR-400, PE-C400, PE-B400, PE-B405 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 Connector Crimp/Non-Solder Contact Attachment for LMR-400, PE-C400, PE-B400, PE-B405 EZ-400-NMH-X

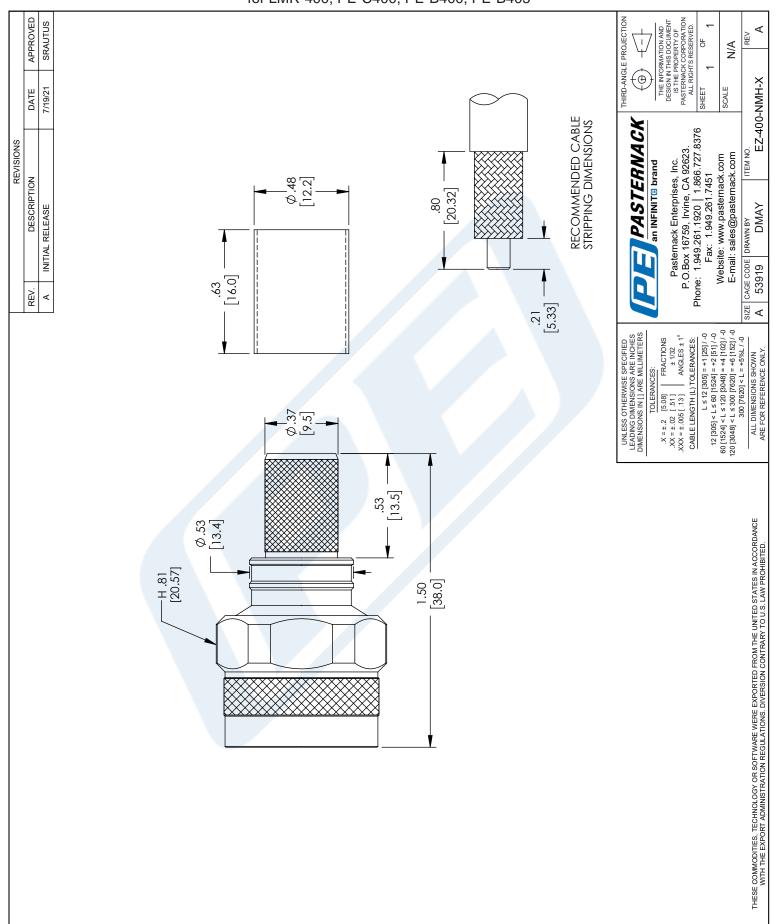
URL: https://www.pasternack.com/n-male-lmr-400-pe-c400-pe-b405-connector-ez-400-nmh-x-p.aspx

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# TIMES MICROWAVE SYSTEMS EZ-400-NMH-X CAD Drawing

N Male Connector Crimp/Non-Solder Contact Attachment for LMR-400, PE-C400, PE-B400, PE-B405







#### LMR-400-FR Fire Rated version of the 400 series Low Loss Coax

# **RF Cables** Technical Data Sheet



# **Times Microwave Systems Coax Cable Specification** Configuration

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

#### **Features**

- CMR Riser Rated Coax
- · Non-Halogen, Low Smoke FRPE Jacket
- · Max Operating Frequency of 5.8 GHz

- Phase Velocity 84% VoP
- Max Operating Temperature +85°C
- Min Install Bend Radius of 1 inches

#### **Applications**

- In-Building Riser Runs
- Short Antenna Installs
- RF Test Systems
- · General Purpose RF Interconnect
- Laboratory Applications

#### **Description**

LMR-400-FR Fire Rated version of the 400 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-400-FR coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This low loss and CMR riser rated 50 Ohm coax cable LMR-400-FR is constructed with a 0.405 inch diameter and Black FRPE jacket.

LMR-400-FR flexible 50 Ohm coax cable with FRPE jacket is rated for a 5.8 GHz maximum operating frequency. This 50 Ohm 0.405 inch diameter and low loss fire rated coax cable is built with an aluminum double shield count and RF shielding of 90 dB. Times Microwave LMR-400-FR FRPE coax is constructed with Foam PE dielectric and a maximum operating temperature of 85 degrees C. Pasternack's offering of LMR-400-FR coax cable provides specs for this wire on its RF coax cable LMR-400-FR datasheet.

LMR-400-FR cable is part of more than one million RF, microwave parts in stock at Pasternack. This Times Microwave low loss flexible LMR-400-FR 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.

#### **Electrical Specifications**

| Description                          | Minimum | Typical  | Maximum | Units      |
|--------------------------------------|---------|----------|---------|------------|
| Frequency Range                      | DC      |          | 5.8     | GHz        |
| Impedance                            |         | 50       |         | Ohms       |
| Velocity of Propagation              |         | 84       |         | %          |
| Time Delay                           |         | 1.2 3.94 |         | ns/ft ns/m |
| Shielding Effectiveness              | 90      |          |         | dB         |
| Dielectric Withstanding Voltage (DC) |         |          | 2,500   | Vdc        |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: LMR-400-FR Fire Rated version of the 400 series Low Loss Coax LMR-400-FR

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<sup>\*</sup> LMR™ is a trademark of Times Microwave Systems.





# LMR-400-FR Fire Rated version of the 400 series Low Loss Coax

# **RF Cables** Technical Data Sheet



| Jacket Spark                  |              | 8,000 | Vrms         |
|-------------------------------|--------------|-------|--------------|
| Inner Conductor DC Resistance |              | 1.39  | Ohms/1000ft  |
| Outer Conductor DC Resistance |              | 1.65  | Ohms/1000ft  |
| Nominal Capacitance           | 23.9 [78.41] |       | pF/ft [pF/m] |
| Nominal Inductance            | 0.06 [0.2]   |       | uH/ft [uH/m] |
| Input Power (Peak)            |              | 16    | kWatts       |

#### **Performance by Frequency Band**

| Description           | F1    | F2    | F3    | F4    | F5    | Units    |
|-----------------------|-------|-------|-------|-------|-------|----------|
| Frequency             | 50    | 150   | 220   | 450   | 900   | MHz      |
| Attenuation, Typ      | 0.9   | 1.5   | 1.9   | 2.7   | 3.9   | dB/100ft |
|                       | 2.95  | 4.92  | 6.23  | 8.86  | 12.8  | dB/100m  |
| Input Power (CW), Max | 2,570 | 1,470 | 1,200 | 830   | 580   | Watts    |
|                       |       |       |       |       |       |          |
| Description           | F6    | F7    | F8    | F9    | F10   | Units    |
| Frequency             | 1.5   | 1.8   | 2     | 2.5   | 5.8   | GHz      |
| Attenuation, Typ      | 5.1   | 5.7   | 6     | 6.8   | 10.8  | dB/100ft |
|                       | 16.73 | 18.7  | 19.69 | 22.31 | 35.43 | dB/100m  |
| Input Power (CW), Max | 440   | 400   | 370   | 330   | 210   | Watts    |
|                       |       |       |       |       |       |          |

#### **Mechanical Specifications**

Diameter 0.405 in 10.29 mm Weight 0.068 lbs/ft [0.1 Kg/m]

Min. Bend Radius (Installation) 1 in [25.4 mm] Min. Bend Radius (Repeated) 4 in [101.6 mm] **Bending Moment** 0.5 lbs-ft [0.68 N-m] Tensile Strength 160 lbs [72.57 kg Flat Plate Crush 40 lbs/in [0.71 Kg/mm]

#### **Construction Specifications**

| Description     | Material and Plating | Diameter           |
|-----------------|----------------------|--------------------|
| Inner Conductor | Copper, 1 Strand     | 0.108 in [2.74 mm] |

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#### LMR-400-FR Fire Rated version of the 400 series Low Loss Coax

# **RF Cables** Technical Data Sheet



| Solid         |                                       |
|---------------|---------------------------------------|
| Foam PE       | 0.285 in [7.24 mm]                    |
| Aluminum Tape | []                                    |
| Tinned Copper | []                                    |
| FRPE, Black   | 0.405 in [10.29 mm]                   |
|               | Foam PE  Aluminum Tape  Tinned Copper |

#### **Environmental Specifications**

#### **Temperature**

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

#### 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-400-fr-frpe-jacket-aluminum-tape-over-tinned-copper-outerconductor-double-shielded-lmr-400-fr-p.aspx

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