



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

### RF Connectors Technical Data Sheet


**TIMES** MICROWAVE SYSTEMS  
An Amphenol Company

**TC-400-NF-X**

#### 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  
Width/Dia.

1.56 in [39.62 mm]  
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](#)



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

### RF Connectors Technical Data Sheet

 **TIMES** MICROWAVE SYSTEMS  
An Amphenol Company

TC-400-NF-X

Weight 0.088 lbs [39.92 g]

#### 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

Shock

US MIL-STD 202, Meth. 213, Cond. I

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:

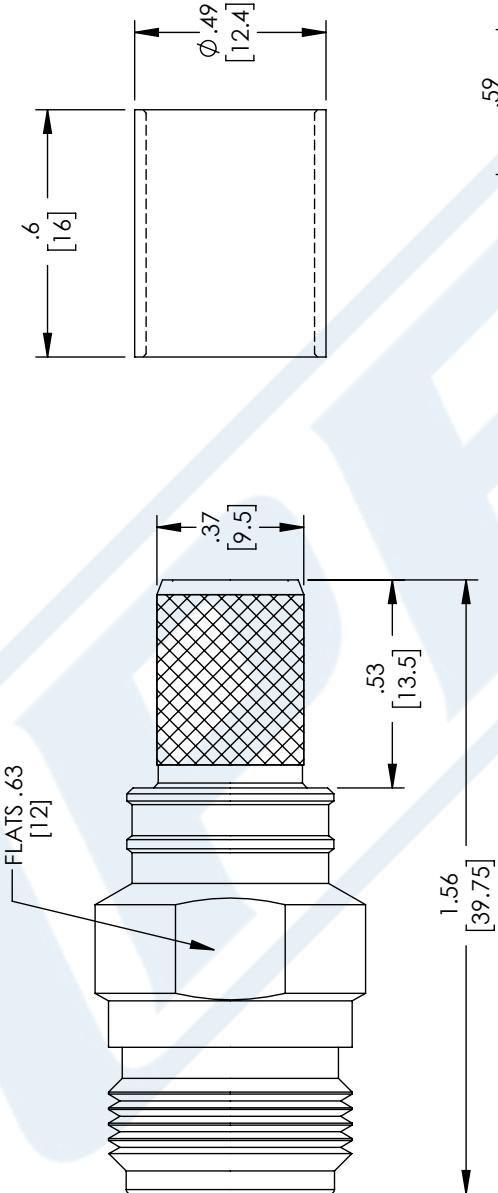
Standard N Female Connector Crimp/Solder Attachment for LMR-400, PE-C400 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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-lmr-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.

| REV. |                 | DESCRIPTION |  | DATE    | APPROVED |
|------|-----------------|-------------|--|---------|----------|
| A    | INITIAL RELEASE |             |  | 7/19/21 | SRAUTUS  |



RECOMMENDED STRIPPING  
DIMENSION

|   |               |                        |
|---|---------------|------------------------|
| <b>PASTERNACK</b><br>an INFINITE® brand   |               | THIRD-ANGLE PROJECTION |
| THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNACK CORPORATION. ALL RIGHTS RESERVED.   |               |                        |
| Pasterнак Enterprises, Inc.<br>P.O. Box 16759, Irvine, CA 92623.<br>Phone: 1.949.261.1920   1.866.727.8376<br>Website: <a href="http://www.pasterнак.com">www.pasterнак.com</a><br>E-mail: <a href="mailto:sales@pasterнак.com">sales@pasterнак.com</a> | SCALE         | N/A                    |
| SHEET 1 OF 1  | ITEM NO.      | TC-400-NF-X            |
| SIZE A 53919  | DRAWN BY DMAY | REV. A                 |

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

TOLERANCES:

|                                  |              |  |
|----------------------------------|--------------|--|
| X = $\pm .2$                     | [.08]        | FRACTIONS  |
| XX = $\pm .02$                   | [.01]        | $\pm 1/32$                                       |
| XXX = $\pm .005$                 | [.013]       | ANGLES $\pm 1^\circ$                             |
| CABLE LENGTH (L) TOLERANCES:     |              |  |
| L $\leq 12$                      | [305]        | $L \leq 12$ [305] = $+1.125$ [0]                 |
| 12 [305] $< L \leq 60$ [1524]    | $+2.156$ [0] | $60$ [1524] $< L \leq 120$ [3048] = $+4.112$ [0] |
| 120 [3048] $< L \leq 300$ [7620] | $+6.152$ [0] | $300$ [7620] $< L \leq 580$ [1473] = $+8.56$ [0] |

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

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WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION, CONTRARY TO U.S. LAW PROHIBITED.

RP SMA Male Connector Crimp/Solder Attachment  
 for PE-C400, PE-B400, PE-B405, LMR-400,  
 LMR-400-DB, LMR-400-UF, 0.400 inch



## RF Connectors Technical Data Sheet

PE44666

### Configuration

- SMA Male Reverse Polarity Connector
- 50 Ohms
- Straight Body Geometry
- PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-

- DB, LMR-400-UF, 0.400 inch Interface Type
- Crimp/Solder Attachment
- 5/16 inch Hex

### Features

- Max. Operating Frequency 12.4 GHz
- Gold Plated Beryllium Copper Contact

- Reverse Polarity

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE44666 RP SMA male connector with crimp/solder attachment for PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF and 0.400 inch is part of our full line of RF components available for same-day shipping. The male reverse polarity configuration uses a male connector body with a female inner contact receptacle. Our SMA male connector operates up to a maximum frequency of 12.4 GHz.

Our reverse polarity SMA male connector PE44666 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   |

### Mechanical Specifications

#### Size

Length  
 Width/Dia.

1.425 in [36.2 mm]  
 0.709 in [18.01 mm]

Weight

0.07 lbs [31.75 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: [RP SMA Male Connector Crimp/Solder Attachment for PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF, 0.400 inch PE44666](#)

RP SMA Male Connector Crimp/Solder Attachment  
 for PE-C400, PE-B400, PE-B405, LMR-400,  
 LMR-400-DB, LMR-400-UF, 0.400 inch



## RF Connectors Technical Data Sheet

PE44666

### Material Specifications

| Description  | Material         | Plating |
|--------------|------------------|---------|
| Contact      | Beryllium Copper | Gold    |
| Insulation   | PTFE             |         |
| Body         | Brass            | Gold    |
| Coupling Nut | Brass            | Gold    |

### Environmental Specifications

#### Temperature

Operating Range

-65 to +165 deg C

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

### Plotted and Other Data

Notes:

RP SMA Male Connector Crimp/Solder Attachment for PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF, 0.400 inch from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

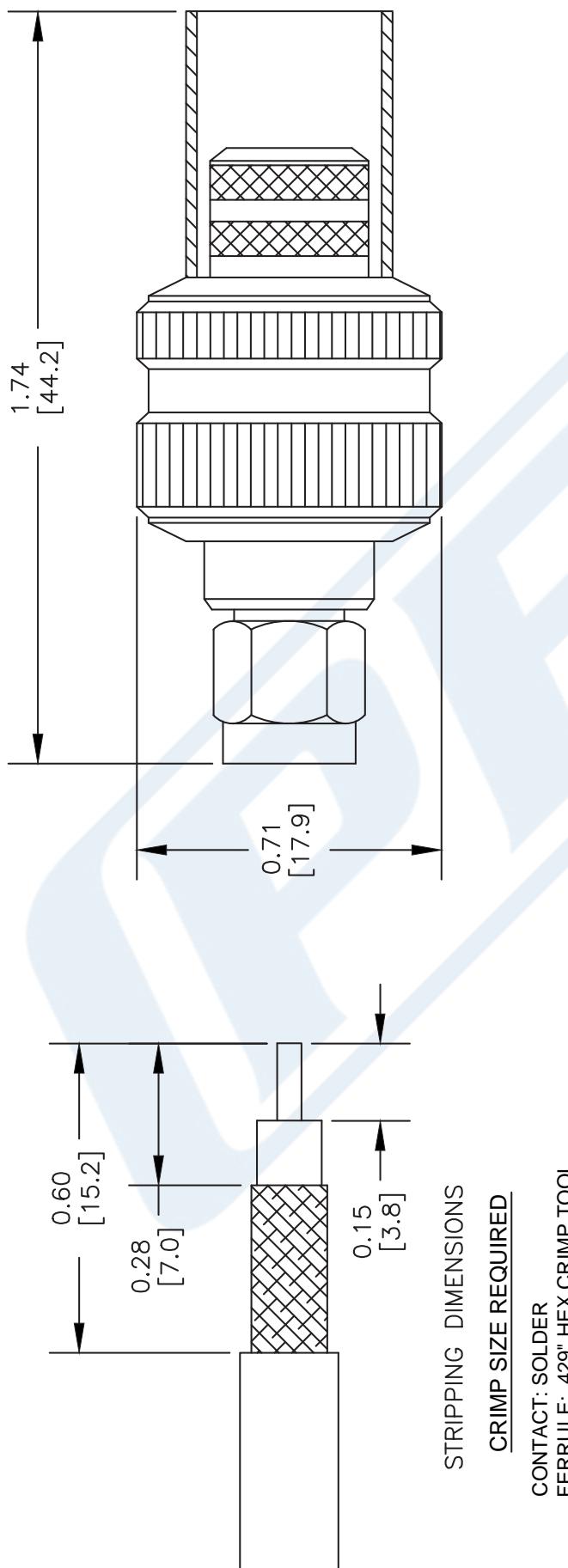
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RP SMA Male Connector Crimp/Solder Attachment for PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF, 0.400 inch PE44666](#)

URL: <https://www.pasternack.com/sma-male-reverse-polarity-pe-c400-0.400-connector-pe44666-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.

# PE44666 CAD Drawing

RP SMA Male Connector Crimp/Solder Attachment for PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF, 0.400 inch



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. FITS MIL-C-17 AND EQUIVALENT CABLES.

DWG TITLE  
**PE44666**

**PASTERNAK**  
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| REV. A | FSCM NO. | 53919 | CAD FILE | 011912 | SCALE N/A | SIZE A | 2233 |
|--------|----------|-------|----------|--------|-----------|--------|------|
|--------|----------|-------|----------|--------|-----------|--------|------|

## LMR®-400

# Flexible Low Loss Communications Coax

### Ideal for...

- Drop-in replacement for RG-8/9913 Air-Dielectric type Cable
- Jumper Assemblies in Wireless Communications Systems
- Short Antenna Feeder runs
- Any application (e.g. WLL, GPS, LMR, WLAN, WISP, WiMax, SCADA, Mobile Antennas) requiring an easily routed, low loss RF cable



- **LMR®** standard is a UV Resistant Polyethylene jacketed cable designed for 20-year service outdoor use. The bending and handling characteristics are significantly better than air-dielectric and corrugated hard-line cables.
- **LMR®-DB** is identical to standard LMR plus has the advantage of being watertight. The addition of waterproofing compound in and around the foil/braid insures continuous reliable service should the jacket be inadvertently damaged during installation or in the future.
- **LMR®-FR** is a non-halogen (non-toxic), low smoke, fire retardant cable designed for in-building runs that can be routed anywhere except air handling plenums. LMR-FR is UL/NEC & CSA rated 'CMR' and 'FT4' respectively, meets FAA FAR25 requirements and is MSHA-P for mining applications.
- **LMR®-FR-PVC** is a general-purpose indoor cable and has a UL/NEC & CSA rating of 'CMR' and 'FT4' respectively. It is less expensive than LMR-FR, however it emits toxic fumes (HCL) and greater smoke density when burned.
- **LMR®-PVC** is designed for low loss general-purpose applications and is somewhat more flexible than the standard polyethylene jacketed LMR.
- **LMR®-PVC-W** is a white-jacketed version of LMR-PVC for marine and other applications where color compatibility is desired.

• **Flexibility** and bendability are hallmarks of the LMR-400 cable design. The flexible outer conductor enables the tightest bend radius available for any cable of similar size and performance.

• **Low Loss** is another hallmark feature of LMR-400.

Size for size LMR has the lowest loss of any flexible cable and comparable loss to semirigid hard-line cables.

- **RF Shielding** is 50 dB greater than typical single shielded coax (40 dB). The multi-ply bonded foil outer conductor is rated conservatively at > 90 dB (i.e. >180 dB between two adjacent cables).
- **Weatherability**: LMR-400 cables designed for outdoor exposure incorporate the best materials for UV resistance and have life expectancy in excess of 20 years.
- **Connectors**: A wide variety of connectors are available for LMR-400 cable, including all common interface types, reverse polarity, and a choice of solder or non-solder center pins. Most LMR connectors employ crimp outer attachment using standard hex crimp sizes.
- **Cable Assemblies**: All LMR-400 cable types are available as pre-terminated cable assemblies. Refer to the section on FlexTech for further details.

| Part Number    | Application              | Part Description |       | Stock Code |
|----------------|--------------------------|------------------|-------|------------|
|                |                          | Jacket           | Color |            |
| LMR-400        | Outdoor                  | PE               | Black | 54001      |
| LMR-400-DB     | Outdoor/Watertight       | PE               | Black | 54091      |
| LMR-400-FR     | Indoor/Outdoor Riser CMR | FRPE             | Black | 54030      |
| LMR-400-FR-PVC | Indoor/Outdoor Riser CMR | FRPVC            | Black | 54073      |
| LMR-400-PVC    | General Purpose          | PVC              | Black | 54218      |
| LMR-400-PVC-W  | General Purpose          | PVC              | White | 54204      |

| Construction Specifications |                   |       |         |
|-----------------------------|-------------------|-------|---------|
| Description                 | Material          | In.   | (mm)    |
| Inner Conductor             | Solid BCCAI       | 0.108 | (2.74)  |
| Dielectric                  | Foam PE           | 0.285 | (7.24)  |
| Outer Conductor             | Aluminum Tape     | 0.291 | (7.39)  |
| Overall Braid               | Tinned Copper     | 0.320 | (8.13)  |
| Jacket                      | (see table above) | 0.405 | (10.29) |

**LMR®-400**
**Flexible Low Loss Communications Coax**

**Connectors**

| Interface       | Description      | Part Number       | Stock Code | VSWR**<br>Freq. (GHz) | Coupling Nut | Inner Contact Attach | Outer Contact Attach | Finish*<br>Body /Pin | Length in<br>(mm) | Width in<br>(mm) | Weight<br>lb(g) |
|-----------------|------------------|-------------------|------------|-----------------------|--------------|----------------------|----------------------|----------------------|-------------------|------------------|-----------------|
| 7-16 DIN Female | Straight Jack    | TC-400-716-FC     | 3190-376   | <1.25:1 (2.5)         | NA           | Solder               | Clamp                | S/S                  | 1.6 (41)          | 1.13 (28.7)      | 0.281 (127.5)   |
| 7-16 DIN Male   | Straight Plug    | EZ-400-716M-X     | 3190-2524  | <1.25:1 (6)           | Hex          | Spring Finger        | Crimp                | A/G                  | 1.6 (39.5)        | 1.38 (35)        | 0.277 (126.0)   |
| 7-16 DIN Male   | Straight Plug    | TC-400-716-MC     | 3190-279   | <1.25:1 (2.5)         | Hex          | Solder               | Clamp                | S/S                  | 1.4 (36)          | 1.40 (35.6)      | 0.268 (121.6)   |
| 7-16 DIN Male   | Right Angle      | TC-400-716MC-RA   | 3190-1671  | <1.25:1 (<3)          | Hex          | Solder               | Clamp                | A/S                  | 2.4 (61.5)        | 1.88 (47.8)      | 0.35 (159)      |
| 7-16 DIN Male   | Right Angle      | EZ-400-716M-RA-X  | 3190-2545  | <1.35:1 (6)           | Hex          | Spring Finger        | Crimp                | A/G                  | 1.6 (41.7)        | 1.75 (44.3)      | 0.374 (0.17)    |
| BNC Male        | Straight Plug    | TC-400-BM         | 3190-318   | <1.25:1 (2.5)         | Knurl        | Solder               | Crimp                | N/S                  | 1.7 (43)          | 0.56 (14.2)      | 0.063 (28.6)    |
| HN Male         | Straight Plug    | TC-400-HNM        | 3190-923   | <1.25:1 (<1)          | Knurl        | Solder               | Clamp                | S/G                  | 2.3 (59.2)        | 0.88 (22.4)      | 0.25 (113.4)    |
| HN Male         | Right Angle      | TC-400-HNM-RA     | 3190-2541  | <1.25:1 (2.5)         | Hex          | Solder               | Crimp                | A/G                  | 1.6 (41.4)        | 1.56 (39.6)      | 0.198 (90.0)    |
| QDS Male        | Straight Plug    | TC-400-QDSM       | 3190-620   | <1.25:1 (<3)          | Knurl        | Solder               | Clamp                | A/G                  | 1.8 (46.6)        | 1.00 (25.4)      | 0.25 (113.4)    |
| Mini-UHF        | Straight Plug    | TC-400-MUHF       | 3190-520   | <1.25:1 (2.5)         | Knurl        | Solder               | Crimp                | N/G                  | 1.1 (28)          | 0.50 (12.7)      | 0.020 (9.1)     |
| N Female        | Straight Jack    | TC-400-NFC        | 3190-299   | <1.25:1 (2.5)         | NA           | Solder               | Clamp                | N/S                  | 1.6 (41)          | 0.75 (19.1)      | 0.119 (54.0)    |
|                 | Straight Jack    | EZ-400-NF         | 3190-956   | <1.25:1 (2.5)         | NA           | Spring Finger        | Crimp                | N/G                  | 1.8 (45)          | 0.66 (16.8)      | 0.105 (47.6)    |
|                 | Straight Jack    | TC-400-NF         | 3190-2255  | <1.25:1 (2.5)         | NA           | Solder               | Crimp                | N/G                  | 1.8 (45)          | 0.66 (16.8)      | 0.105 (47.6)    |
|                 | Bulkhead Jack    | EZ-400-NF-BH      | 3190-518*  | <1.25:1 (2.5)         | NA           | Spring Finger        | Crimp                | N/G                  | 1.8 (46)          | 0.88 (22.4)      | 0.102 (46.3)    |
| N Male          | Bulkhead Jack    | TC-400-NFC-BH (A) | 3190-872   | <1.25:1 (2.5)         | NA           | Solder               | Clamp                | A/G                  | 1.8 (46)          | 0.88 (22.4)      | 0.145 (65.8)    |
|                 | Straight Plug    | SC-400-NM         | 3190-1454  | <1.25:1 (2.5)         | Knurl        | Solder               | Crimp                | N/G                  | 1.5 (38)          | 0.75 (19.1)      | 0.090 (40.8)    |
|                 | Straight Plug    | TC-400-NMC        | 3190-277   | <1.25:1 (2.5)         | Knurl        | Solder               | Clamp                | N/G                  | 1.5 (38)          | 0.70 (17.8)      | 0.121 (54.9)    |
|                 | Straight Plug    | EZ-400-NMC-2      | 3190-2640  | <1.25:1 (2.5)         | Hex/Knurl    | Spring Finger        | Crimp                | N/G                  | 1.5 (38)          | 0.75 (19.1)      | 0.121 (54.9)    |
|                 | Straight Plug    | EZ-400-NMH-X      | 3190-2590  | <1.25:1 (10)          | Hex/Knurl    | Spring Finger        | Crimp                | A/G                  | 1.5 (38)          | 0.89 (22.6)      | 0.103 (46.8)    |
|                 | Straight Plug    | TC-400-NMH-X      | 3190-2626  | <1.25:1 (10)          | Hex/Knurl    | Solder               | Crimp                | A/G                  | 1.5 (38)          | 0.89 (22.6)      | 0.113 (51.3)    |
|                 | Straight Plug    | EZ-400-NMK        | 3190-661   | <1.25:1 (10)          | Knurl        | Spring Finger        | Crimp                | S/G                  | 1.5 (38)          | 0.75 (22.6)      | 0.113 (51.3)    |
|                 | Right Angle      | EZ-400-NMH-RA-X   | 3190-2638  | <1.35:1 (6)           | Hex/Knurl    | Spring Finger        | Crimp                | A/G                  | 1.87 (47)         | 1.42 (36.0)      | 0.177 (80.2)    |
|                 | Right Angle      | TC-400-NMH-RA-D   | 3190-2293* | <1.35:1 (6)           | Hex/Knurl    | Solder               | Crimp                | A/G                  | 1.8 (46)          | 1.25 (31.8)      | 0.130 (59.0)    |
| SMA Male        | Right Angle      | TC-400-NMC-RA (A) | 3190-870   | <1.35:1 (2.5)         | Hex          | Solder               | Clamp                | A/G                  | 1.8 (46)          | 1.25 (31.8)      | 0.150 (68.0)    |
|                 | Reverse Polarity | TC-400-NM-RP      | 3190-960   | <1.25:1 (2.5)         | Knurl        | Solder               | Crimp                | N/G                  | 1.5 (38)          | 0.75 (19.1)      | 0.090 (40.8)    |
|                 | Reverse Polarity | EZ-400-TF-RP      | 3190-795   | <1.25:1 (2.5)         | NA           | Spring Finger        | Crimp                | A/G                  | 1.8 (46)          | 0.55 (14.0)      | 0.074 (33.6)    |
| TNC Male        | Reverse Polarity | EZ-400-TF-RP      | 3190-795   | <1.25:1 (2.5)         | NA           | Spring Finger        | Crimp                | A/G                  | 1.8 (46)          | 0.55 (14.0)      | 0.074 (33.6)    |
|                 | Straight Plug    | TC-400-TM-X       | 3190-2532  | <1.25:1 (6)           | Hex/Knurl    | Solder               | Crimp                | A/G                  | 1.9 (48)          | 0.67 (17.5)      | 0.075 (34.3)    |
|                 | Straight Plug    | EZ-400-TM-X       | 3190-2533  | <1.25:1 (6)           | Hex/Knurl    | Spring Finger        | Crimp                | A/G                  | 1.9 (48)          | 0.67 (17.5)      | 0.075 (34.3)    |
|                 | Right Angle      | TC-400-TM-RA      | 3190-442*  | <1.35:1 (2.5)         | Knurl        | Solder               | Crimp                | N/G                  | 1.7 (43)          | 0.59 (15.0)      | 0.085 (38.6)    |
|                 | Reverse Polarity | TC-400-TM-RP      | 3190-1062  | <1.25:1 (2.5)         | Knurl        | Solder               | Crimp                | N/G                  | 1.7 (43)          | 0.59 (15.0)      | 0.074 (33.6)    |
| TNC Male        | Reverse Polarity | EZ-400-TM-RP      | 3190-794   | <1.25:1 (2.5)         | Knurl        | Spring Finger        | Crimp                | A/G                  | 1.7 (43)          | 0.59 (15.0)      | 0.074 (33.6)    |