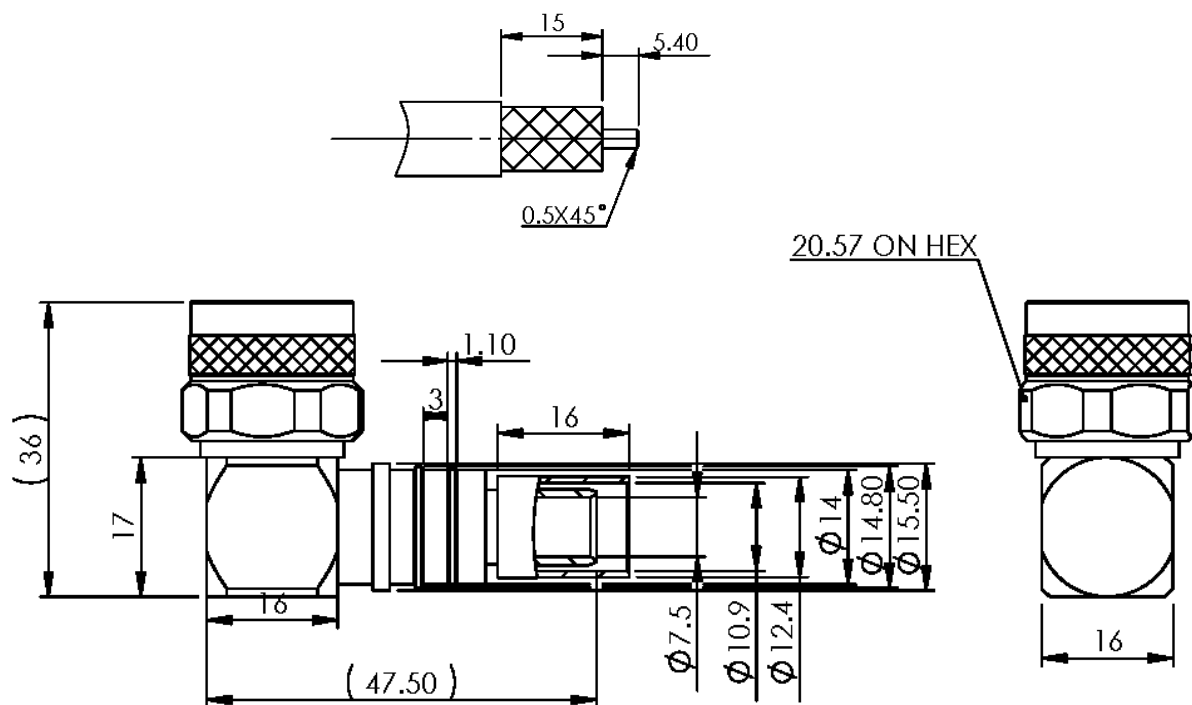


NOTICE OF PROPRIETARY RIGHTS THIS DOCUMENT CONTAINS CONFIDENTIAL TECHNICAL DATA, INCLUDING TRADE SECRETS, PROPRIETARY TO TIMES MICROWAVE SYSTEMS. DISCLOSURE OF THIS DATA IS EXPRESSLY CONDITIONED UPON YOUR ASSENT THAT ITS USE IS LIMITED TO USE WITHIN YOUR COMPANY ONLY. ANY OTHER USE IS STRICTLY PROHIBITED WITHOUT THE PRIOR WRITTEN CONSENT OF TIMES MICROWAVE SYSTEMS.

| SYM | REVISION DESCRIPTION    | DFTM   | DATE    | APPD   | DATE   |
|-----|-------------------------|--------|---------|--------|--------|
| A   | RELEASED FOR PRODUCTION | K.A.M. | 5/19/11 | J.D.B. | 6/9/11 |



Reference standard IEC60169-16I, Electric Performance

Nominal Impedance( $\Omega$ ): 50  
Frequency Range: DC-6GHz  
VSWR:  $\leq 1.35$   
Insert Loss:  $\leq 0.10$  (0-3G)  
Insulation resistance ( $M\Omega$ ):  $>5000$   
Proof voltage (V): 2500  
Conductor resistance ( $m\Omega$ ):  
outer conductor  $<0.4$   
inner conductor  $<0.8$

## II、Mechanical Performance

Whorl pull 500N  
Nut torque 5N.m  
Tensile force(cable-connect) 300N  
Torsion(cable-connect) 3N.m

## III、Material and plating :

| Component       | Material         | Plating                   |
|-----------------|------------------|---------------------------|
| inner conductor | Beryllium copper | Au $>1.27\mu m$           |
| outer conductor | Brass            | Copper-tin-zinc $>2\mu m$ |
| insulator       | PTFE             |                           |
| nut             | Brass            | Copper-tin-zinc $>2\mu m$ |

## IV、Environment

Temp.range -55°C~+155°C  
Weather standard IEC 60068 55 / 155/ 56  
Thermal shock US MIL-STD 202,Meth.107,Cond.B  
Vibration US MIL-STD 202,Meth.204,Cond.B  
Shock US MIL-STD 202,Meth.213,Cond.I  
ROHS compliant

V、Assemble: inner conductor installed and outer conductor crimped

|             |                            |  |                |                                                    |
|-------------|----------------------------|--|----------------|----------------------------------------------------|
| MATL:       | UNLESS OTHERWISE SPECIFIED |  | DFTM: K, A, M, | TIMES MICROWAVE SYSTEMS                            |
|             | ALL DIMENSIONS ARE IN mm   |  | DATE 5/19/11   |                                                    |
| USED ON:    |                            |  | CHKD. J, D, B, | CONNECTOR, 90° NM<br>FOR LMR-400 (EZ-400-NMH-RA-X) |
|             |                            |  | DATE 6/9/11    |                                                    |
| SCALE: ~    | DO NOT SCALE DRAWING       |  | APPD. J, D, B, | 1 of 1 SD3190-2638                                 |
|             |                            |  | DATE 6/9/11    |                                                    |
| DWG. SIZE A | CODE IDENT 68999           |  |                | REV A                                              |



RP TNC 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

**PE44672**

### Configuration

- TNC 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

### Features

- Max. Operating Frequency 11 GHz
- Gold Plated Phosphor Bronze Contact

- Reverse Polarity

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE44672 RP TNC 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 TNC male connector operates up to a maximum frequency of 11 GHz.

Our reverse polarity TNC male connector PE44672 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      |         | 11      | GHz   |

### Mechanical Specifications

#### Size

Length

1.75 in [44.45 mm]

Width/Dia.

0.59 in [14.99 mm]

Weight

0.058 lbs [26.31 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RP TNC Male Connector Crimp/Solder Attachment for PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF, 0.400 inch PE44672](#)



RP TNC 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

**PE44672**

### Material Specifications

| Description  | Material        | Plating |
|--------------|-----------------|---------|
| Contact      | Phosphor Bronze | Gold    |
| Insulation   | PTFE            |         |
| Body         | Brass           | Nickel  |
| Coupling Nut | Brass           | Nickel  |

### Environmental Specifications

#### Temperature

Operating Range -65 to +165 deg C

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

### Plotted and Other Data

Notes:

RP TNC 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.

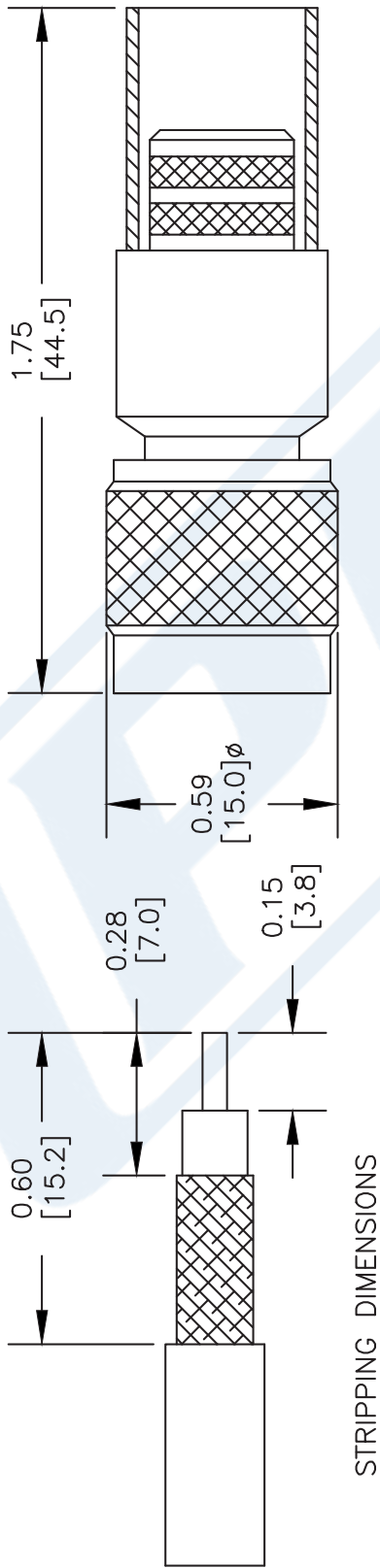
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RP TNC Male Connector Crimp/Solder Attachment for PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF, 0.400 inch PE44672](#)

URL: <https://www.pasternack.com/tnc-male-reverse-polarity-pe-c400-0.400-connector-pe44672-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.

PE44672 CAD Drawing

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



CRIMP SIZE REQUIRED

CONTACT: SOLDER  
FERRULE: .429" HEX CRIMP TOOL

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 | FSCM NO. 53919 | CAD FILE | 102009 | SCALE | N/A | SIZE | A | XXX |
| PE44672   |                |          |        |       |     |      |   |     |

**PASTERNAK®**  
Pasternack Enterprises, Inc.  
P.O. Box 16759 | Irvine | CA | 92623  
Phone: (949) 261-1920 | Fax: (949) 261-7451  
Website: [www.pasternack.com](http://www.pasternack.com) | E-Mail: [sales@pasternack.com](mailto:sales@pasternack.com)

# LMR<sup>®</sup>-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<sup>®</sup>** 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<sup>®</sup>-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<sup>®</sup>-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<sup>®</sup>-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<sup>®</sup>-PVC** is designed for low loss general-purpose applications and is somewhat more flexible than the standard polyethylene jacketed LMR.

• **LMR<sup>®</sup>-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 Description |                      |           |       |  | Stock |
|------------------|----------------------|-----------|-------|--|-------|
| Part Number      | Application          | Jacket    | Color |  | Code  |
| 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

|                 |                  |                   |            |             |          |           | Inner         | Outer | Finish* |         |        |      |        |       |         |
|-----------------|------------------|-------------------|------------|-------------|----------|-----------|---------------|-------|---------|---------|--------|------|--------|-------|---------|
| Interface       | Description      | Part Number       | Stock Code | VSWR**      | Coupling | Contact   | Contact       | Body  | Length  | Width   | Weight |      |        |       |         |
|                 |                  |                   |            | Freq. (GHz) | Nut      | Attach    | Attach        | /Pin  | in (mm) | in (mm) | 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)   |
| 7-16DIN 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)  |
|                 | 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)  |
| N Male          | 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)  |
|                 | 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)  |
| SMA Male        | Straight Plug    | TC-400-SM         | 3190-439   | <1.25:1     | (8)      | Hex       | Solder        | Crimp | N/G     | 1.2     | (29)   | 0.50 | (12.7) | 0.032 | (14.5)  |
| TNC Female      | Reverse Polarity | TC-400-TF-RP      | 3190-1063  | <1.25:1     | (2.5)    | NA        | Solder        | Crimp | N/G     | 1.8     | (46)   | 0.55 | (14.0) | 0.074 | (33.6)  |
|                 | 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        | 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)  |
|                 | 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)  |