

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

PE44668

### Configuration

- SMA Male 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 Brass Contact

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE44668 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. Our SMA male connector operates up to a maximum frequency of 12.4 GHz.

Our SMA male connector PE44668 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

|                      |                                 |
|----------------------|---------------------------------|
| <b>Size</b>          | 1.74 in [44.2 mm]               |
| Length               | 0.705 in [17.91 mm]             |
| Width/Dia.           |                                 |
| <b>Weight</b>        | 0.07 lbs [31.75 g]              |
| <b>Mating Torque</b> | 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: [SMA Male Connector Crimp/Solder Attachment for PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF, 0.400 inch PE44668](#)

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



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### Material Specifications

| Description  | Material | Plating |
|--------------|----------|---------|
| Contact      | Brass    | 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:

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.

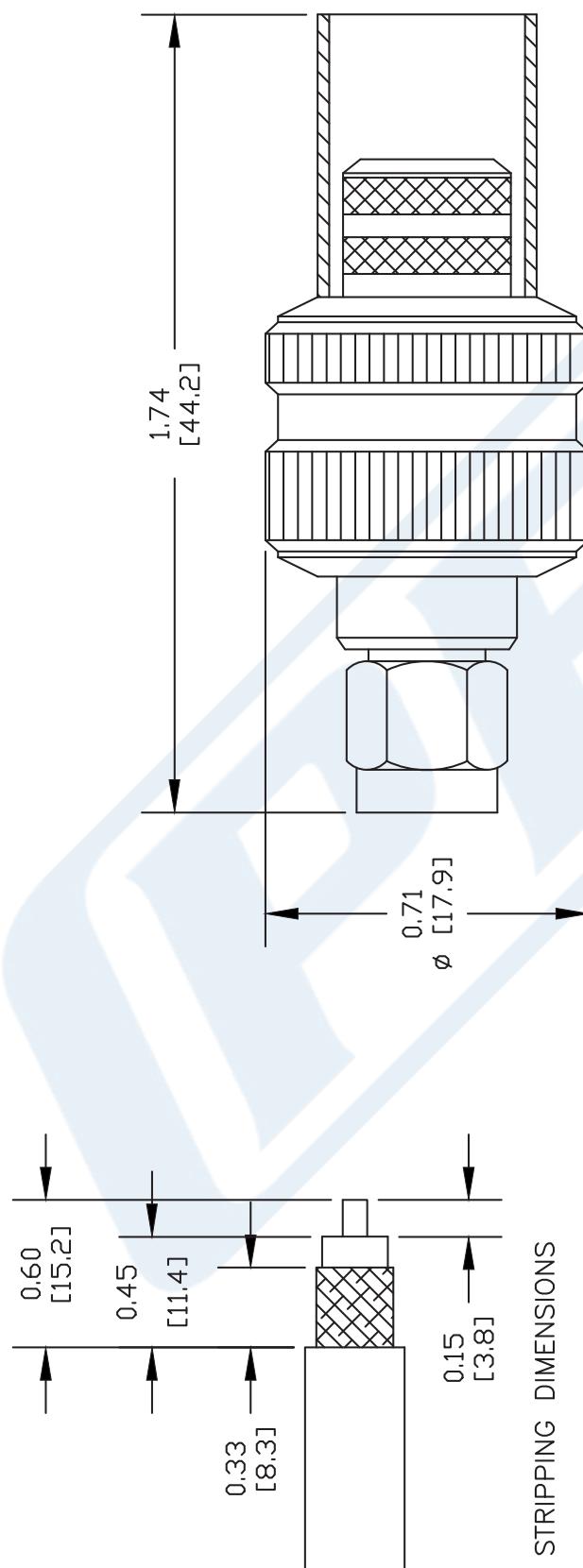
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URL: <https://www.pasternack.com/sma-male-standard-pe-c400-0.400-connector-pe44668-p.aspx>

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.

# PE44668 CAD Drawing

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.

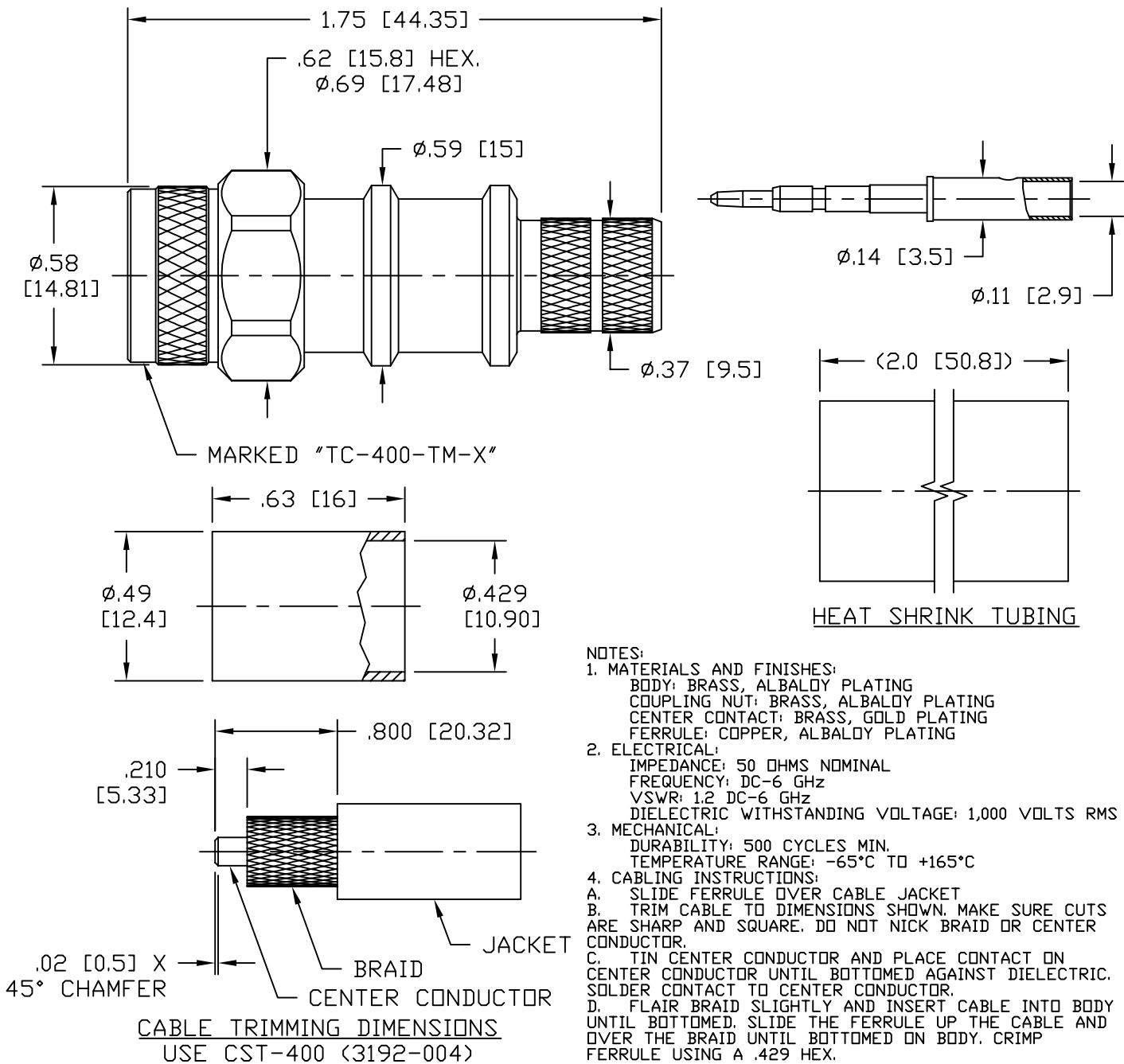
DWG TITLE  
**PE44668**

**PASTERNACK®**  
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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)

| REV. - | FSCM NO. | 53919 | CAD FILE | 102009 | SCALE | N/A | SIZE | A | 147 |
|--------|----------|-------|----------|--------|-------|-----|------|---|-----|
|--------|----------|-------|----------|--------|-------|-----|------|---|-----|

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 | X.A.m. | 2/24/10  | J.D.B. | 3/2/10   |
| B   | CHANGED PER CDC #34322  | D.J.H. | 10/12/11 | J.D.B. | 10/27/11 |
| C   | CHANGED PER CDC #36607  | D.J.H. | 11/16/12 | J.D.B. | 11/19/12 |



## NOTES:

1. MATERIALS AND FINISHES:  
BODY: BRASS, ALBALOY PLATING  
COUPLING NUT: BRASS, ALBALOY PLATING  
CENTER CONTACT: BRASS, GOLD PLATING  
FERRULE: COPPER, ALBALOY PLATING
2. ELECTRICAL:  
IMPEDANCE: 50 OHMS NOMINAL  
FREQUENCY: DC-6 GHz  
VSWR: 1.2 DC-6 GHz  
DIELECTRIC WITHSTANDING VOLTAGE: 1,000 VOLTS RMS
3. MECHANICAL:  
DURABILITY: 500 CYCLES MIN.  
TEMPERATURE RANGE: -65°C TO +165°C
4. CABLING INSTRUCTIONS:
  - A. SLIDE FERRULE OVER CABLE JACKET
  - B. TRIM CABLE TO DIMENSIONS SHOWN. MAKE SURE CUTS ARE SHARP AND SQUARE. DO NOT NICK BRAID OR CENTER CONDUCTOR.
  - C. TIN CENTER CONDUCTOR AND PLACE CONTACT ON CENTER CONDUCTOR UNTIL BOTTOMED AGAINST DIELECTRIC. SOLDER CONTACT TO CENTER CONDUCTOR.
  - D. FLAIR BRAID SLIGHTLY AND INSERT CABLE INTO BODY UNTIL BOTTOMED. SLIDE THE FERRULE UP THE CABLE AND OVER THE BRAID UNTIL BOTTOMED ON BODY. CRIMP FERRULE USING A 429 HEX.

|            |  |                  |   |
|------------|--|------------------|---|
| MATERIAL:  | UNLESS OTHERWISE SPECIFIED   | DFTM: K. A. M.   | TIMES MICROWAVE SYSTEMS                 |
|            | ALL DIMENSIONS ARE IN INCHES<br>MACHINED SURFACES FINISH 32 RMS MAX.<br>REMOVE ALL BURRS .005 MAX. BREAK<br>MACHINE CORNERS .005 MAX. FILLET R.<br>TOLERANCES ON DECIMALS<br>. XX ± .01      . XXX ± .005<br>ANGLES ± 1°      FRACTIONS ± 1/64 | DATE 2/24/10     |   |
| USED ON: D | CHKD: J. D. B.   | DATE 3/2/10      | TC-400-TM-X<br>PLUG, TNC<br>FOR LMR-400 |
|            | APPD: J. D. B.   | DATE 3/2/10      |   |
| SCALE: ~   | DWG. SIZE A  | CODE IDENT 68999 | SD 3190-2532 REV C<br>SHEET 1 of 1      |

## LMR®-400-UF

### UltraFlex 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 that requires periodic/repeated flexing



- **LMR®- UltraFlex** has a stranded center conductor and rubber outer jacket designed for multiple bending/flexing cycles. It is used for both indoor and outdoor applications.

- **Flexibility** and bendability are hallmarks of the LMR-400-UF 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-UF. 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-UF cables are designed for outdoor exposure and have a life expectancy in excess of 10 years.

- **Connectors**: A wide variety of connectors are available for LMR-400-UF cable, including all common interface types, reverse polarity, and solder-on center pins. Most LMR connectors employ crimp outer attachment using standard hex crimp sizes.
- **Cable Assemblies**: All LMR-400-UF cable types are available as pre-terminated cable assemblies. Refer to the section on FlexTech for further details.

| Part Description |                |        |       |            |
|------------------|----------------|--------|-------|------------|
| Part Number      | Application    | Jacket | Color | Stock Code |
| LMR-400-UF       | Indoor/Outdoor | TPE    | Black | 54040      |

| Construction Specifications |                               |       |         |
|-----------------------------|-------------------------------|-------|---------|
| Description                 | Material                      | In.   | (mm)    |
| Inner Conductor             | Stranded BC                   | 0.108 | (2.74)  |
| Dielectric                  | Foam Polyethylene             | 0.285 | (7.24)  |
| Outer Conductor             | Aluminum Tape                 | 0.291 | (7.39)  |
| Overall Braid               | Tinned Copper                 | 0.320 | (8.13)  |
| Jacket                      | Black Thermoplastic Elastomer | 0.405 | (10.29) |

## LMR®-400-UF

### UltraFlex Communications Coax



### Connectors

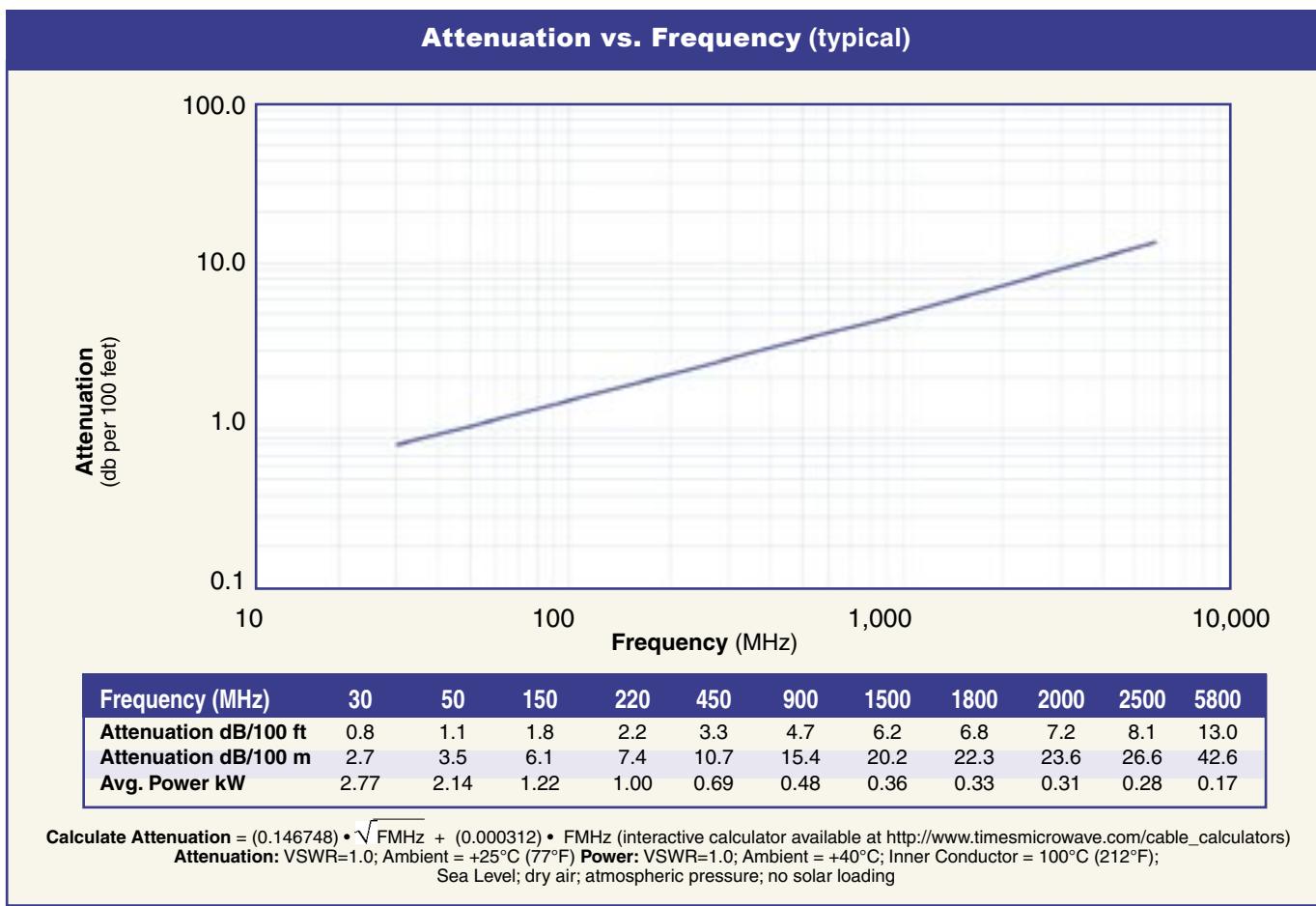
| Interface       | Description   | Part Number     | Stock Code | VSWR** Freq. (GHz) | Coupling Nut | Inner Contact Attach | Outer Contact Attach | Finish* Body /Pin | Length in (mm) | Width in (mm) | Weight lb (g) |
|-----------------|---------------|-----------------|------------|--------------------|--------------|----------------------|----------------------|-------------------|----------------|---------------|---------------|
| 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 | 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) |
| 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)  |
| 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)  |
| 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-NM       | 3190-188   | <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)       | 0.75 (19.1)   | 0.121 (54.9)  |
|                 | Straight Plug | TC-400-NMH-D    | 3190-552   | <1.25:1 (10)       | Hex/Knurl    | Solder               | Crimp                | A/G               | 1.5 (38)       | 0.89 (22.6)   | 0.113 (51.3)  |
|                 | Right Angle   | TC-400-NMH-RA   | 3190-422*  | <1.35:1 (6)        | Hex          | Solder               | Crimp                | S/G               | 1.8 (46)       | 1.25 (31.8)   | 0.130 (59.0)  |
| SMA Male        | 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)  |
|                 | 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 Male        | Straight Plug | TC-400-TM       | 3190-260   | <1.25:1 (2.5)      | Knurl        | Solder               | Crimp                | N/S               | 1.7 (43)       | 0.59 (15.0)   | 0.074 (33.6)  |
|                 | 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)  |

\* Finish metals: N=Nickel, S=Silver, G=Gold, SS=Stainless Steel, A=Alballoy   \*\*VSWR spec based on 3 foot cable with a connector pair   \*Available in bulk pack

| Mechanical Specifications |                |              |          |
|---------------------------|----------------|--------------|----------|
| Performance Property      | Units          | US           | (metric) |
| Bend Radius: installation | in. (mm)       | 1.0 (25.4)   |          |
| Bend Radius: repeated     | in. (mm)       | 4.0 (101.6)  |          |
| Bending Moment            | ft-lb (N-m)    | 0.375 (0.51) |          |
| Weight                    | lb/ft (kg/m)   | .088 (0.131) |          |
| Tensile Strength          | lb (kg)        | 160 (72.6)   |          |
| Flat Plate Crush          | lb/in. (kg/mm) | 20 (0.36)    |          |

| Environmental Specifications   |          |         |
|--------------------------------|----------|---------|
| Performance Property           | °F       | °C      |
| Installation Temperature Range | -40/+185 | -40/+85 |
| Storage Temperature Range      | -94/+185 | -70/+85 |
| Operating Temperature Range    | -40/+185 | -40/+85 |

| Electrical Specifications |                   |              |          |
|---------------------------|-------------------|--------------|----------|
| Performance Property      | Units             | US           | (metric) |
| Cutoff Frequency          | GHz               | 16.2         |          |
| Velocity of Propagation   | %                 | 85           |          |
| Dielectric Constant       | NA                | 1.38         |          |
| Time Delay                | nS/ft (nS/m)      | 1.20 (3.92)  |          |
| Impedance                 | ohms              | 50           |          |
| Capacitance               | pF/ft (pF/m)      | 23.9 (78.40) |          |
| Inductance                | uH/ft (uH/m)      | 0.060 (0.21) |          |
| Shielding Effectiveness   | dB                | >90          |          |
| DC Resistance             |                   |              |          |
| Inner Conductor           | ohms/1000ft (/km) | 1.07         | (3.51)   |
| Outer Conductor           | ohms/1000ft (/km) | 1.65         | (5.4)    |
| Voltage Withstand         | Volts DC          | 2500         |          |
| Jacket Spark              | Volts RMS         | 8000         |          |
| Peak Power                | kW                | 16           |          |





## Hardware Accessories

| Type          | Part Number | Stock Code | Description                   |
|---------------|-------------|------------|-------------------------------|
| Ground Kit    | GK-S400TT   | GK-S400TT  | Standard Grounding Kit (each) |
| Hoisting Grip | HG-400T     | HG-400T    | Laced Type (each)             |



## Install Tools

| Type              | Part Number | Stock Code | Description  |
|-------------------|-------------|------------|--|
| Crimp Tool        | HX-4        | 3190-200   | Crimp Handle   |
| Crimp Dies        | Y1719       | 3190-202   | .429" Hex Dies                                       |
| Crimp Tool        | CT-400/300  | 3190-666   | Crimp tool for LMR 400 connectors                    |
| Crimp Rings       | CR-400      | 3190-830   | Crimp rings for TC/EZ-400 connectors (package of 10) |
| Cutting Tool      | CCT-01      | 3190-1544  | Cable end flush cut tool                             |
| Replacement Blade | RB-01       | 3190-1609  | Replacement blade for cutting tool                   |