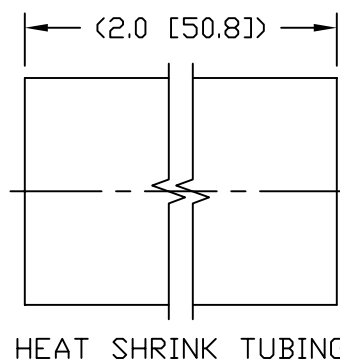
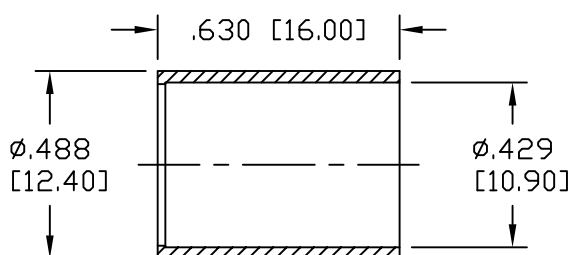
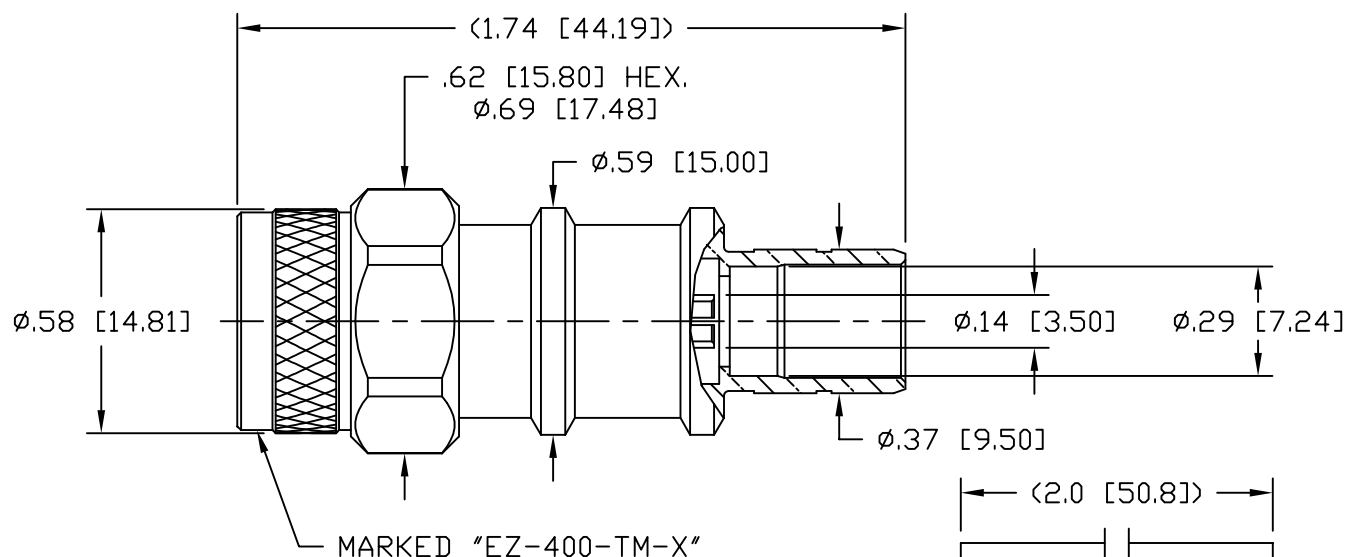
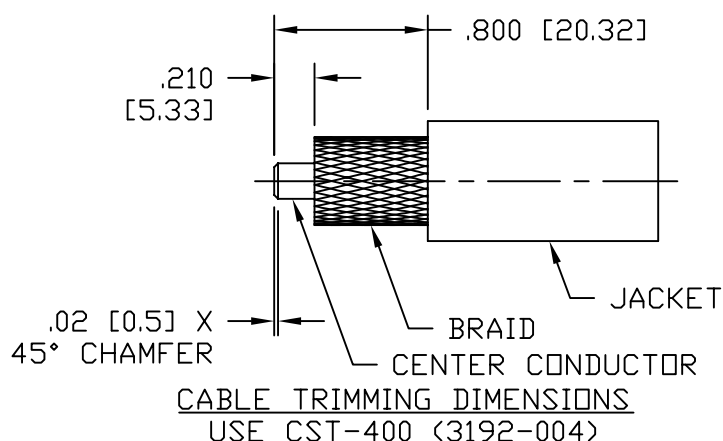


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| SYM | REVISION DESCRIPTION    | DFTM   | DATE     | APPD   | DATE     |
|-----|-------------------------|--------|----------|--------|----------|
| A   | RELEASED FOR PRODUCTION | K.A.M. | 2/25/10  | J.D.B. | 3/11/10  |
| B   | CHANGED PER CDC #34322  | 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 |



HEAT SHRINK TUBING



CABLE TRIMMING DIMENSIONS  
USE CST-400 (3192-004)

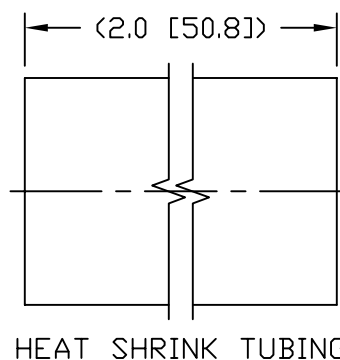
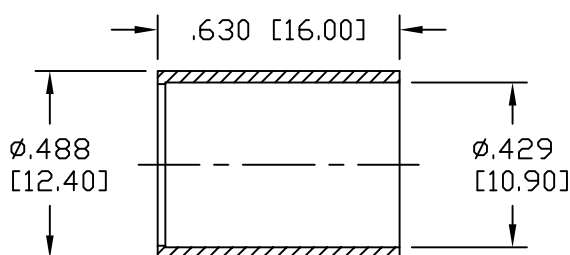
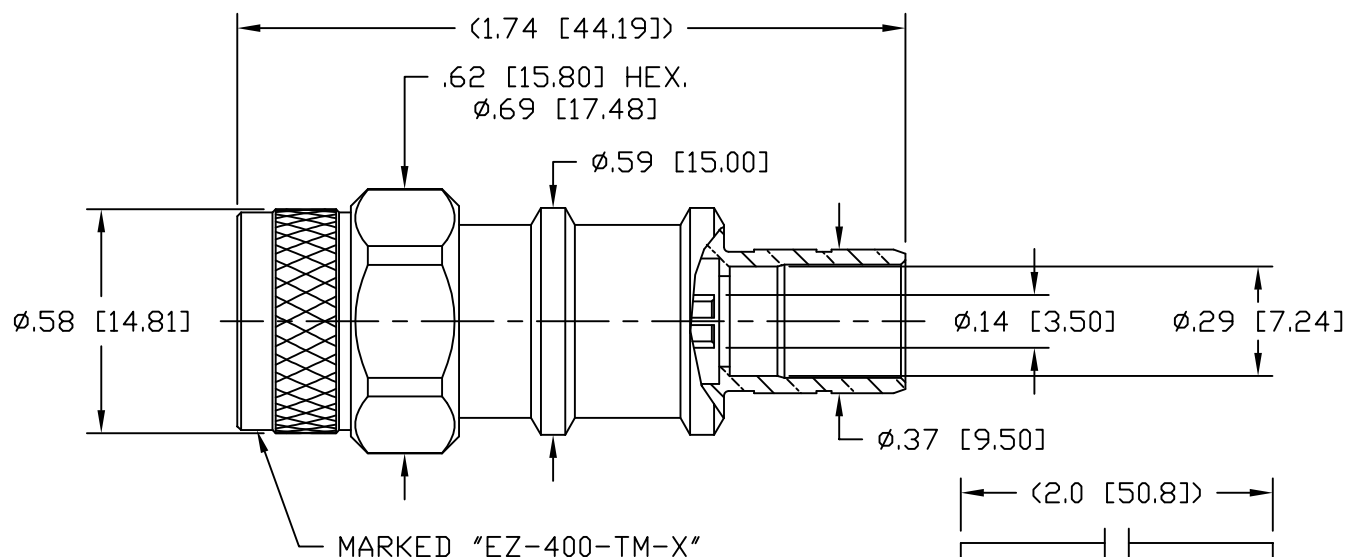
NOTES:

- MATERIALS AND FINISHES:  
BODY: BRASS, ALBALOY PLATING  
COUPLING NUT: BRASS, ALBALOY PLATING  
CENTER CONTACT: BERYLLIUM COPPER, GOLD PLATING  
FERRULE: COPPER, ALBALOY PLATING
- ELECTRICAL:  
IMPEDANCE: 50 OHMS NOMINAL  
FREQUENCY: DC-6 GHz  
VSWR: 1.2 DC-6 GHz  
DIELECTRIC WITHSTANDING VOLTAGE: 1,000 VOLTS RMS
- MECHANICAL:  
DURABILITY: 500 CYCLES MIN.  
TEMPERATURE RANGE: -65°C TO +165°C
- 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. 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.  
5. RECOMMENDED COUPLING NUT TORQUE: 4-6 IN-LBS.

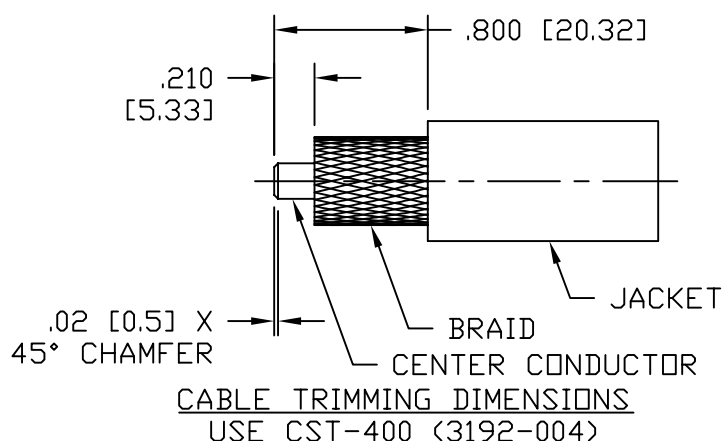
|            |  |                                                                                                                                                                                                                                                                                                                |  |                      |                                             |              |              |             |       |
|------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------|---------------------------------------------|--------------|--------------|-------------|-------|
| MATL:      |  | UNLESS OTHERWISE SPECIFIED<br><br>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 |  | DFTM. K. A. M.       | TIMES MICROWAVE SYSTEMS                     |              |              |             |       |
|            |  |                                                                                                                                                                                                                                                                                                                |  | DATE 2/25/10         |                                             |              |              |             |       |
| USED ON: B |  |                                                                                                                                                                                                                                                                                                                |  | CHKD. J. D. B.       | EZ-400-TM-X<br>PLUG, TNC, EZ<br>FOR LMR-400 |              |              |             |       |
|            |  |                                                                                                                                                                                                                                                                                                                |  | DATE 3/11/10         |                                             |              |              |             |       |
| SCALE: ~   |  | DWG. SIZE A                                                                                                                                                                                                                                                                                                    |  | DO NOT SCALE DRAWING | CODE IDENT 68999                            | DATE 3/11/10 | SHEET 1 of 1 | SD3190-2533 | REV C |
|            |  |                                                                                                                                                                                                                                                                                                                |  |                      |                                             |              |              |             |       |

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| SYM | REVISION DESCRIPTION    | DFTM   | DATE     | APPD   | DATE     |
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HEAT SHRINK TUBING



NOTES:

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COUPLING NUT: BRASS, ALBALOY PLATING  
CENTER CONTACT: BERYLLIUM COPPER, GOLD PLATING  
FERRULE: COPPER, ALBALOY PLATING
- ELECTRICAL:  
IMPEDANCE: 50 OHMS NOMINAL  
FREQUENCY: DC-6 GHz  
VSWR: 1.2 DC-6 GHz  
DIELECTRIC WITHSTANDING VOLTAGE: 1,000 VOLTS RMS
- MECHANICAL:  
DURABILITY: 500 CYCLES MIN.  
TEMPERATURE RANGE: -65°C TO +165°C
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|            |  |                                                                                                                                                                                                                                                                                                                |  |                      |                                             |                |              |             |       |
|------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------|---------------------------------------------|----------------|--------------|-------------|-------|
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|            |  |                                                                                                                                                                                                                                                                                                                |  | DATE 2/25/10         |                                             |                |              |             |       |
| USED ON: B |  |                                                                                                                                                                                                                                                                                                                |  | CHKD. J. D. B.       | EZ-400-TM-X<br>PLUG, TNC, EZ<br>FOR LMR-400 |                |              |             |       |
|            |  |                                                                                                                                                                                                                                                                                                                |  | DATE 3/11/10         |                                             |                |              |             |       |
| SCALE: ~   |  | DWG. SIZE A                                                                                                                                                                                                                                                                                                    |  | DO NOT SCALE DRAWING | CODE IDENT 68999                            | DATE 3/11/10   | SHEET 1 of 1 | SD3190-2533 | REV C |
|            |  |                                                                                                                                                                                                                                                                                                                |  |                      |                                             | APPD. J. D. B. |              |             |       |



## Low PIM Flexible TCOM-400 Coax Cable Double Shielded with Black PE Jacket

### RF Cables Technical Data Sheet


**TCOM-400**

#### Times Microwave Systems Coax Cable Specification Configuration

- Low PIM Flexible Cable
- 2 Shield(s)

#### Description

TCOM-400 part number from Pasternack is a low PIM coax cable that is flexible. Pasternack flexible coax RF cable has an impedance of 50 Ohm and a Foam PE dielectric. Our TCOM-400 coax cable is constructed with a 0.405-inch jacket made of polyethylene. This coaxial cable has a dielectric withstanding voltage of 2500 Vdc.

The TCOM-400 flexible RF cable has a shield count of 2 and RF shielding of 100 dB. Our coax cable from Pasternack has a maximum frequency of 10 GHz. The maximum passive intermodulation of this low PIM cable is -155 dBc. Additional specifications for this TCOM-400 double-shielded RF coaxial cable are on our downloadable PDF datasheet above.

Our TCOM-400 coax cable can operate at temperatures ranging from -40 to 85 degrees C. This black-colored flexible RF cable with a 50 Ohm impedance has a typical insertion loss/maximum attenuation of 15.7 dB/100ft at a frequency of 10 GHz. The TCOM-400 flexible RF cable has a solid copper clad aluminum center conductor. This coaxial cable features a dual shield of tinned copper braid over the silver plated copper braid.

Pasternack TCOM-400 low PIM coax cables are part of over 40,000 RF, microwave, and millimeter wave components. These flexible cables and our other RF parts are available for same-day shipping worldwide. Custom RF cable assemblies using TCOM-400 or other coax can be built and shipped the same business day as well.

#### Electrical Specifications

| Description                          | Minimum | Typical      | Maximum | Units        |
|--------------------------------------|---------|--------------|---------|--------------|
| Frequency Range                      | DC      |              | 10      | GHz          |
| Impedance                            |         | 50           |         | Ohms         |
| Velocity of Propagation              |         | 85           |         | %            |
| Time Delay                           |         | 1.2 [3.94]   |         | ns/ft [ns/m] |
| Shielding Effectiveness              | 100     |              |         | dB           |
| Passive Intermodulation              |         |              | -155    | dBc          |
| Dielectric Withstanding Voltage (DC) |         |              | 2,500   | Vdc          |
| Jacket Spark                         |         |              | 8,000   | Vrms         |
| Inner Conductor DC Resistance        |         |              | 1.39    | Ohms/1000ft  |
| Outer Conductor DC Resistance        |         |              | 1.47    | 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       |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low PIM Flexible TCOM-400 Coax Cable Double Shielded with Black PE Jacket TCOM-400](#)



## Low PIM Flexible TCOM-400 Coax Cable Double Shielded with Black PE Jacket

### RF Cables Technical Data Sheet


**TCOM-400**

#### Performance by Frequency Band

| Description           | F1    | F2    | F3   | F4    | F5    | Units    |
|-----------------------|-------|-------|------|-------|-------|----------|
| Frequency             | 0.15  | 0.22  | 0.45 | 0.9   | 1.5   | GHz      |
| Attenuation, Typ      | 1.6   | 2     | 2.9  | 4.2   | 5.4   | dB/100ft |
|                       | 5.25  | 6.56  | 9.51 | 13.78 | 17.72 | dB/100m  |
| Input Power (CW), Max | 1,380 | 1,130 | 780  | 540   | 410   | Watts    |

| Description           | F6    | F7  | F8    | F9    | F10   | Units    |
|-----------------------|-------|-----|-------|-------|-------|----------|
| Frequency             | 1.8   | 2   | 2.5   | 5.8   | 10    | GHz      |
| Attenuation, Typ      | 6     | 6.4 | 7.2   | 11.5  | 15.7  | dB/100ft |
|                       | 19.69 | 21  | 23.62 | 37.73 | 51.51 | dB/100m  |
| Input Power (CW), Max | 370   | 350 | 310   | 190   | 140   | Watts    |

#### Mechanical Specifications

|                                 |                         |
|---------------------------------|-------------------------|
| Diameter                        | 0.405 in [10.29 mm]     |
| Weight                          | 0.08 lbs/ft [0.12 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 Clad Aluminum, 1 Strand | 0.108 in [2.74 mm] |
| Conductor Type  | Solid                          |                    |
| Dielectric      | PE (F)                         | 0.285 in [7.24 mm] |
| First Shield    | Silver Plated Copper Braid     | 0.295 in [7.49 mm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low PIM Flexible TCOM-400 Coax Cable Double Shielded with Black PE Jacket TCOM-400](#)



Low PIM Flexible TCOM-400 Coax Cable  
Double Shielded with Black PE Jacket

**RF Cables**  
**Technical Data Sheet**



**TCOM-400**

|               |                     |                     |
|---------------|---------------------|---------------------|
| Second Shield | Tinned Copper Braid | 0.33 in [8.38 mm]   |
| Jacket        | PE, Black           | 0.405 in [10.29 mm] |

**Environmental Specifications**

**Temperature**

Operating Range

-40 to +85 deg C

Installation Range

-40 to +85 deg C

Storage Range

-70 to +85 deg C

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

**Plotted and Other Data**

Notes:

Low PIM Flexible TCOM-400 Coax Cable Double Shielded with Black PE Jacket 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: [Low PIM Flexible TCOM-400 Coax Cable Double Shielded with Black PE Jacket TCOM-400](#)

URL: <https://www.pasternack.com/low-pim-flexible-tcom400-pe-jacket-silver-plated-copper-braid-over-tinned-copper-braid-outer-conductor-double-shielded-tcom-400-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.

