



TNC Male Right Angle Connector Crimp/Solder  
Attachment For RG8X, PE-C240, 0.240 inch

**TECHNICAL DATA SHEET**

**PE44635**

**TNC Male Right Angle Connector Crimp/Solder Attachment For RG8X, PE-C240, 0.240 inch**

**Configuration**

|                                          |                           |
|------------------------------------------|---------------------------|
| Connector                                | TNC Male                  |
| Connector Interface Type                 | RG8X, PE-C240, 0.240 inch |
| Cable Attachment Method (Shield/Contact) | Crimp/Solder              |
| Body Style                               | Right Angle               |

**Electrical Specifications**

|                 |    |
|-----------------|----|
| Impedance, Ohms | 50 |
|-----------------|----|

**Mechanical Specifications**

**Size**

|                     |               |
|---------------------|---------------|
| Length, in [mm]     | 1.103 [28.02] |
| Width/Dia., in [mm] | 0.59 [15]     |
| Height, in [mm]     | 1.06 [26.92]  |
| Weight, lbs [g]     | 0.042 [19.05] |

**Connector**

|                                   |               |
|-----------------------------------|---------------|
| Type                              | TNC Male      |
| Contact Material and Plating      | Brass, Gold   |
| Coupling Nut Material and Plating | Brass, Nickel |
| Body Material and Plating         | Brass, Nickel |
| Dielectric Type                   | Teflon        |

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

|                |     |
|----------------|-----|
| RoHS Compliant | Yes |
|----------------|-----|

**Plotted and Other Data**

|        |                            |
|--------|----------------------------|
| Notes: | Values at 25 °C, sea level |
|--------|----------------------------|

URL: <http://www.pasternack.com/tnc-male-standard-rg8x-pe-c240-0.240-connector-pe44635-p.aspx>

TNC Male Right Angle Connector Crimp/Solder Attachment For RG8X, PE-C240, 0.240 inch from Pasternack Enterprises has same day shipment for domestic and International orders. We maintain 99% availability of the industry's broadest selection of RF, microwave and fiber optic products.

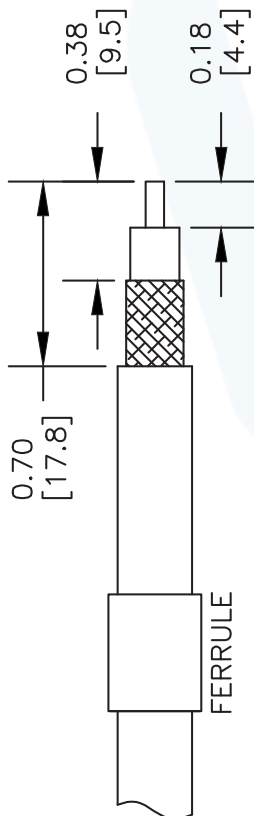
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# PE44635 CAD Drawing

TNC Male Right Angle Connector Crimp/Solder  
Attachment For RG8X, PE-C240, 0.240 inch

## ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN. SLIDE FERRULE OVER CABLE.



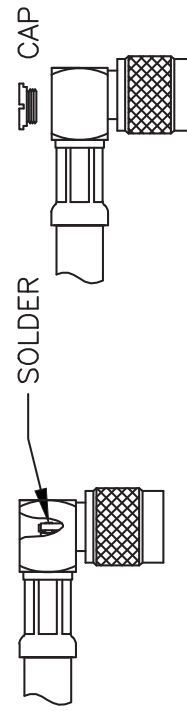
2. FLAIR BRAID AND INSERT THE STRIPPED CABLE INTO BODY AND POSITION THE CENTER CONDUCTOR IN THE SLOT OF THE CENTER PIN.



3. SLIDE FERRULE OVER BRAID UP TO THE CONNECTOR BODY AND CRIMP AS CLOSE TO THE CONNECTOR BODY AS POSSIBLE USING A .255" HEX CRIMP TOOL.



4. SOLDER THE CENTER CONDUCTOR OF THE CABLE TO THE CENTER PIN. TIGHTEN DOWN THE CAP INTO THE REAR APERTURE OF THE BO



DWG TITLE

**PE44635**

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.

REV. B

FSCM NO. 53919

CAD FILE 012012-B

SCALE N/A

SIZE A

2233

**P****ASTERNACK**<sup>®</sup>

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SMA Male Connector Crimp/Solder Attachment for PE-C240,  
RG8X, 0.240 inch, LMR-240, LMR-240-DB, LMR-240-UF, B7808A

## RF Connectors Technical Data Sheet

**PE44637**

### Configuration

- SMA Male Connector
- 50 Ohms
- Straight Body Geometry
- PE-C240, RG8X, 0.240 inch, LMR-240, LMR-240-DB, LMR-240-UF, B7808A 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 PE44637 SMA male connector with crimp/solder attachment for PE-C240, RG8X, 0.240 inch, LMR-240, LMR-240-DB, LMR-240-UF and B7808A 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 PE44637 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   |
| Operating Voltage (AC)               |         |         | 333     | Vrms  |
| Dielectric Withstanding Voltage (AC) |         |         | 1,000   | Vrms  |

### Mechanical Specifications

|               |                                 |
|---------------|---------------------------------|
| <b>Size</b>   |                                 |
| Length        | 0.969 in [24.61 mm]             |
| Width/Dia.    | 0.312 in [7.92 mm]              |
| Weight        | 0.014 lbs [6.35 g]              |
| Mating Cycles | 500 Cycles                      |
| 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: [SMA Male Connector Crimp/Solder Attachment for PE-C240, RG8X, 0.240 inch, LMR-240, LMR-240-DB, LMR-240-UF, B7808A PE44637](#)



SMA Male Connector Crimp/Solder Attachment for PE-C240,  
RG8X, 0.240 inch, LMR-240, LMR-240-DB, LMR-240-UF, B7808A

## RF Connectors Technical Data Sheet

**PE44637**

### 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-C240, RG8X, 0.240 inch, LMR-240, LMR-240-DB, LMR-240-UF, B7808A 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.

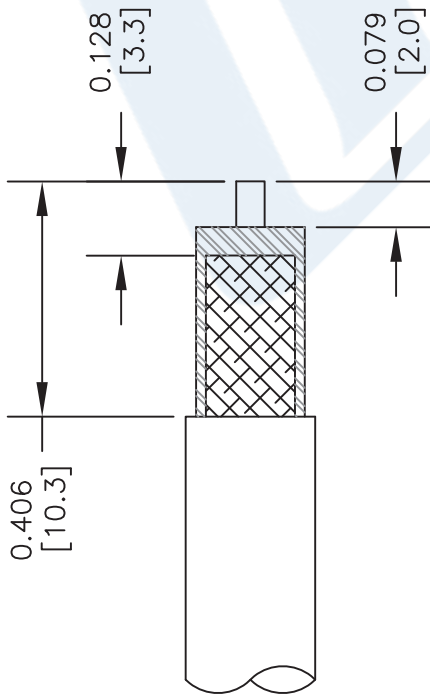
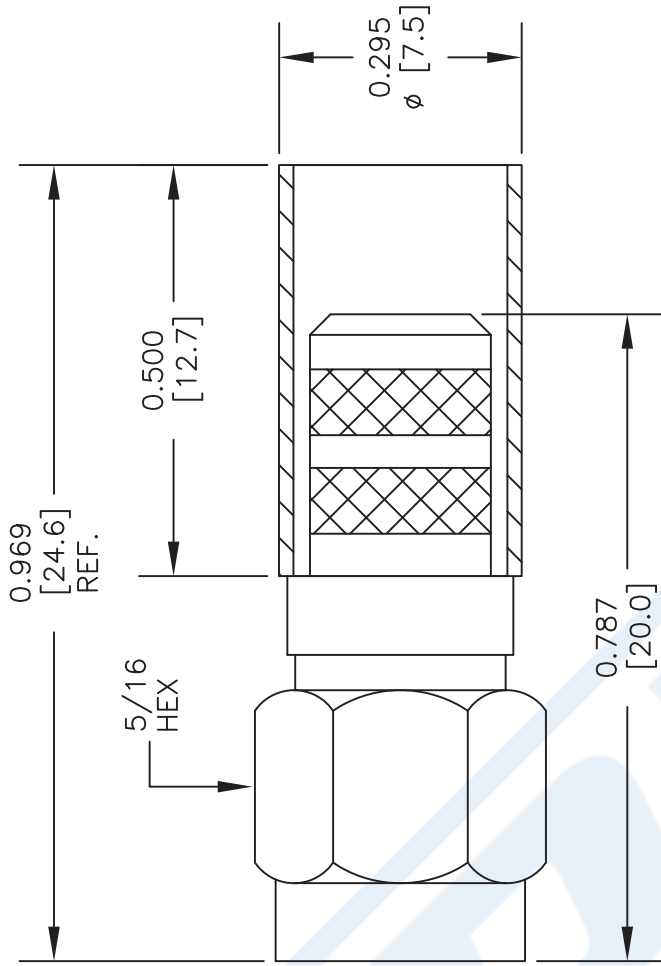
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URL: <https://www.pasternack.com/sma-male-standard-rg8x-pe-c240-0.240-connector-pe44637-p.aspx>

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# PE44637 CAD Drawing

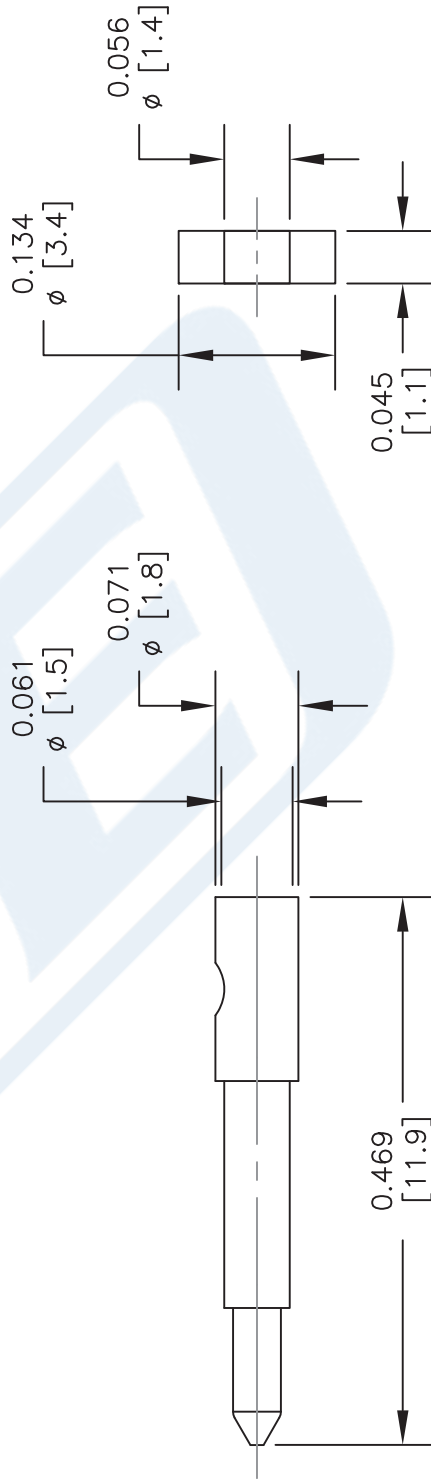
SMA Male Connector Crimp/Solder Attachment for PE-C240, RG8X,  
0.240 inch, LMR-240, LMR-240-DB, LMR-240-UF, B7808A



STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: SOLDER  
FERRULE: .255" HEX CRIMP TOOL



CONTACT

SPACER

DWG TITLE

PE44637

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3. DIMENSIONS ARE IN INCHES [mm].  
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

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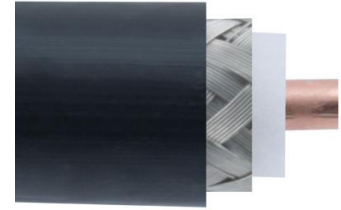
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SCALE N/A

SIZE A

2233

## Low PIM Flexible TCOM-240-FR Fire Rated Coax Cable Triple Shielded with Black FRPE Jacket



### TCOM-240-FR

#### Configuration

- Low PIM, Fire Rated Flexible Cable
- 3 Shield(s)

#### Features

- Lightweight and Extremely Flexible
- PIM < -155 dBc
- RF Shielding >100 dB
- Low Loss Dielectric 84% VoP
- Fire Rated Jacket
- Non-Halogen (Non-Toxic)

#### Applications

- Wireless Base Station Interconnect
- Distributed Antenna Systems (DAS)
- Antenna Jumpers
- UL/NEC & CSA rating of 'CMR' and 'FT4'
- Low Smoke Requirements
- Small Cell
- Indoor-Riser CMR

#### Description

The TCOM-240-FR part number from Pasternack is a TCOM-240 low PIM coax cable that is flexible. Pasternack flexible coax RF cable has an impedance of 50 Ohm and a foam polyethylene dielectric. Our TCOM-240 coax cable is constructed with a 0.240-inch jacket made of polyethylene. This coaxial cable has a dielectric withstanding voltage of 1500 Vdc. This black low PIM coax cable has a nominal capacitance of 24.20 pF/Ft.

This TCOM-240 flexible RF cable has a shield count of 3. Our coax cable from Pasternack has a maximum frequency of 18 GHz. The maximum passive intermodulation of this low PIM cable is -155 dBc. Additional specifications for this TCOM-240-FR RF coaxial cable are on our downloadable PDF datasheet above. This low PIM RF cable has a one-time minimum bend radius of 0.75 inches and a repeat minimum bend radius of 2.5 inches. Our flexible 50 Ohm coax cable has a peak power rating of 5600 watts.

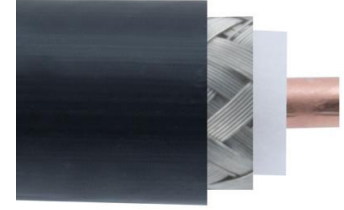
Our TCOM-240 coax cable can operate at temperatures ranging from -40 to 85 deg C. The black-colored coax RF cable has a typical insertion loss/attenuation of 3, 5.3, 7.5, 12, 19, 28, and 40 dB/100ft at frequencies of 150 MHz, 450 MHz, 900 MHz, 2000 MHz, 5000 MHz, 10000 MHz and 18000 MHz respectively. Our TCOM-240-FR flexible RF cable has a solid copper center conductor. This coaxial cable features a dual shield of tinned copper braid over the silver plated copper braid.

Pasternack TCOM-240 low PIM coax cables are part of our 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-240, or other coax can be built and shipped the same business day as well.

#### Electrical Specifications

| Description             | Minimum | Typical     | Maximum | Units        |
|-------------------------|---------|-------------|---------|--------------|
| Frequency Range         | DC      |             | 18      | GHz          |
| Impedance               |         | 50          |         | Ohms         |
| Velocity of Propagation |         | 84          |         | %            |
| Time Delay              |         | 1.21 [3.97] |         | ns/ft [ns/m] |
| Shielding Effectiveness | 100     |             |         | dB           |
| Passive Intermodulation |         |             | -155    | dBc          |

## Low PIM Flexible TCOM-240-FR Fire Rated Coax Cable Triple Shielded with Black FRPE Jacket



### TCOM-240-FR

#### Electrical Specifications

| Description                          | Minimum | Typical     | Maximum | Units        |
|--------------------------------------|---------|-------------|---------|--------------|
| Dielectric Withstanding Voltage (DC) |         |             | 1,500   | Vdc          |
| Jacket Spark                         |         |             | 5,000   | Vrms         |
| Inner Conductor DC Resistance        |         |             | 3.2     | Ohms/1000ft  |
| Outer Conductor DC Resistance        |         |             | 2.06    | Ohms/1000ft  |
| Nominal Capacitance                  |         | 24.2 [79.4] |         | pF/ft [pF/m] |
| Nominal Inductance                   |         | 0.06 [0.2]  |         | uH/ft [uH/m] |
| Input Power (Peak)                   |         |             | 5.6     | kWatts       |

#### Performance by Frequency Band

| Description      | F1   | F2    | F3    | F4    | F5    | Units    |
|------------------|------|-------|-------|-------|-------|----------|
| Frequency        | 0.15 | 0.45  | 0.9   | 2     | 5     | GHz      |
| Attenuation, Typ | 3    | 5.3   | 7.5   | 12    | 19    | dB/100ft |
|                  | 9.84 | 17.39 | 24.61 | 39.37 | 62.34 | dB/100m  |

| Description      | F6    | F7     | F8 | F9 | F10 | Units    |
|------------------|-------|--------|----|----|-----|----------|
| Frequency        | 10    | 18     |    |    |     | GHz      |
| Attenuation, Typ | 28    | 40     |    |    |     | dB/100ft |
|                  | 91.86 | 131.23 |    |    |     | dB/100m  |

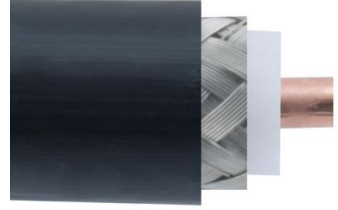
#### Mechanical Specifications

|                                 |                          |
|---------------------------------|--------------------------|
| Diameter                        | 0.24 in [6.1 mm]         |
| Weight                          | 0.045 lbs/ft [0.07 kg/m] |
| Min. Bend Radius (Installation) | 0.75 in [19.05 mm]       |
| Min. Bend Radius (Repeated)     | 2.5 in [63.5 mm]         |
| Bending Moment                  | 0.25 lbs-ft [0.34 N-m]   |
| Tensile Strength                | 80 lbs [36.29 kg]        |
| Flat Plate Crush                | 20 lbs/in [0.36 kg/mm]   |

#### Construction Specifications

| Description     | Material and Plating       | Diameter           |
|-----------------|----------------------------|--------------------|
| Inner Conductor | Copper, 1 Strand           | 0.056 in [1.42 mm] |
| Conductor Type  | Solid                      |                    |
| Dielectric      | PE (F)                     | 0.15 in [3.81 mm]  |
| First Shield    | Silver Plated Copper Braid | 0.16 in [4.06 mm]  |
| Second Shield   | Tinned Copper Braid        | 0.188 in [4.78 mm] |
| Jacket          | FRPE, Black                | 0.24 in [6.1 mm]   |

## Low PIM Flexible TCOM-240-FR Fire Rated Coax Cable Triple Shielded with Black FRPE Jacket



### TCOM-240-FR

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#### 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:

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TCOM-240-FR CAD Drawing
Low PIM Flexible TCOM-240-FR Fire Rated Coax Cable Triple Shielded with Black FRPE Jacket

