



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

RF Connectors Technical Data Sheet

PE44634

Configuration

- TNC Male Connector
- 50 Ohms
- Straight Body Geometry

- Connector Interface Types: PE-C240, RG8X, .240 inch, LMR-240, LMR-240-DB, LMR-240-UF, B7808A

Features

- Max. Operating Frequency 11 GHz
- Gold Plated Brass Contact

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE44634 TNC male connector with crimp/solder attachment for PE-C240, RG8X, .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 TNC male connector operates up to a maximum frequency of 11 GHz.

Our TNC male connector PE44634 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 |
| Operating Voltage (AC) | | | 500 | Vrms |
| Dielectric Withstanding Voltage (AC) | | | 1,500 | Vrms |

Mechanical Specifications

Size

Length
Width/Dia.
Weight

1.172 in [29.77 mm]
0.59 in [14.99 mm]
0.032 lbs [14.51 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male Connector Crimp/Solder Attachment for PE-C240, RG8X, .240 inch, LMR-240, LMR-240-DB, LMR-240-UF, B7808A PE44634](#)



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

RF Connectors Technical Data Sheet

PE44634

Material Specifications

| Description | Material | Plating |
|-------------|----------|---------|
| Contact | Brass | Gold |
| Insulation | POM | |
| Body | Brass | Nickel |

Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

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

Plotted and Other Data

Notes:

TNC Male Connector Crimp/Solder Attachment for PE-C240, RG8X, .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 99.4% availability and are part of the broadest selection in the industry.

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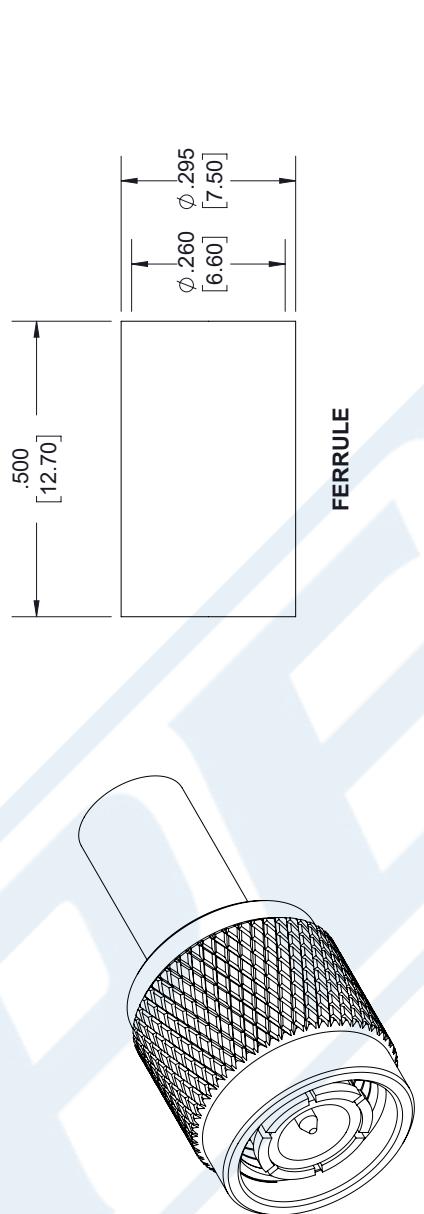
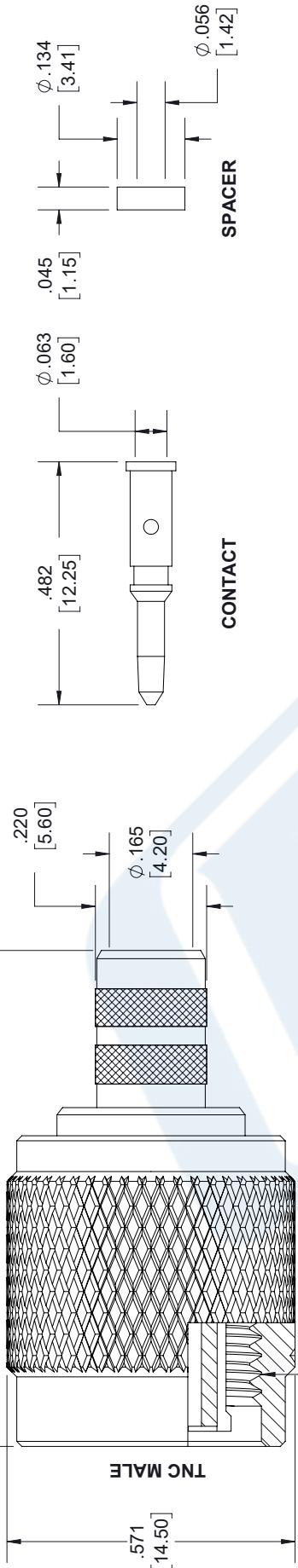
URL: <https://www.pasternack.com/tnc-male-standard-rg8x-pe-c240-0.240-connector-pe44634-p.aspx>

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.

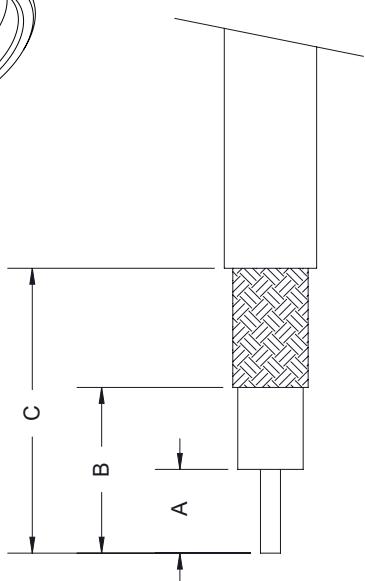
PE44634 CAD Drawing

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

| REVISIONS | | | |
|-----------|-------------|------------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | PCR PE44634 | 12/20/2019 | S.ELLIS |



7/16-28 UNEF-2B



| Stripping Dimensions | | | |
|------------------------|-------------|-------------|--------------|
| Cable Type | A | B | C |
| LMR-240 & Similar Coax | .203 [5.15] | .303 [7.70] | .630 [16.00] |
| RG8X & Similar Coax | .157 [4.00] | .303 [7.70] | .630 [16.00] |

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

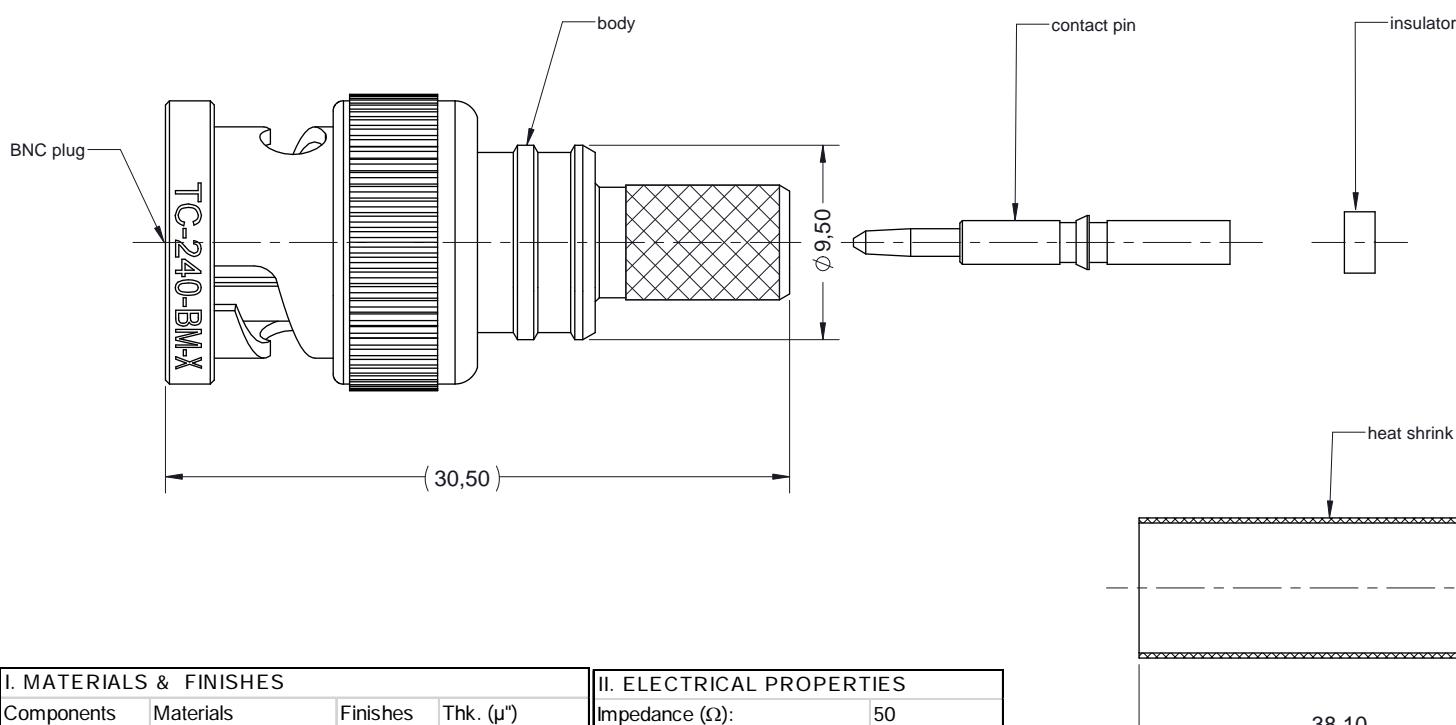
| | | |
|------------------------------------|--------------|----------------------|
| X = $\pm .2$ | [.08] | FRACTIONS |
| XX = $\pm .02$ | [.51] | $\pm 1/32$ |
| XXX = $\pm .005$ | [.13] | ANGLES $\pm 1^\circ$ |
| CABLE LENGTH (L) TOLERANCES: | | |
| L \leq 12 [305] | = $+1 [25]$ | -0 |
| 12 [305] $<$ L \leq 60 [1524] | = $+2 [51]$ | -0 |
| 60 [1524] $<$ L \leq 120 [3048] | = $+4 [102]$ | -0 |
| 120 [3048] $<$ L \leq 300 [7520] | = $+6 [152]$ | -0 |
| 300 [7520] $<$ L = $+5\%L$ -0 | | |

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

| | |
|---|--|
| PASTERNACK an INFINITE brand | THIRD ANGLE PROJECTION |
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| Pasterнак Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Website: www.pasterнак.com E-mail: sales@pasterнак.com | SHEET 1 OF 1 SCALE N/A |

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F



I. MATERIALS & FINISHES

| Components | Materials | Finishes | Thk. (μ) |
|--------------|-----------|----------|----------------|
| Body | Brass | Albaloy | 100 |
| Center Cont. | Brass | Gold | 50 |
| Ferrule | Brass | Albaloy | 100 |
| Coupling Nut | Brass | Albaloy | 100 |
| Insulator | PTFE | N/A | N/A |
| Gasket | Silicone | Red | N/A |

II. ELECTRICAL PROPERTIES

| | |
|--------------------------------------|------------------|
| Impedance (Ω): | 50 |
| Frequency Range (GHz): | DC to 4 GHz |
| Working Voltage (V): | ≥ 1000 |
| Insulation Resistance ($M\Omega$): | ≥ 10000 |
| VSWR: | ≤ 1.30 |
| Insertion Loss(dB, f/GHz): | $-0.1x \sqrt{f}$ |

III. ENVIRONMENT PROPERTIES

| | |
|--------------------|--|
| Temperature Range: | -40°C - +125°C |
| Thermal Shock: | MIL-STD 202G, Meth.107, Cond.B |
| Vibration: | MIL-STD 202G, Meth.204, Cond.B |
| Shock: | MIL-STD 202G, Meth.213, Cond I |
| Climatic Class: | IEC 60068 55/155/56 (2002/95/EC)RoHS: |
| | Compliant |

IV. MECHANICAL PROPERTIES

| | |
|--------------------------------------|--------------|
| Center Conductor: | Solder |
| Outer Conductor.: | Crimp |
| Coupling Nut Torque (N.m): | Bayonet Lock |
| Cable-Connector Retention Force (N): | 500 |
| Durability (cycles): | 500 |

V. TOOLING

| | |
|-----------------|-------------------------|
| Stripping Tool: | 3192-152 |
| Crimping Tool: | 3190-667/CT-240/200/100 |

UNLESS OTHERWISE SPECIFIED

ALL DIMENSIONS ARE IN mm
MACHINED SURFACES FINISH 1.6 RMS MAX
REMOVE ALL BURRS 0.15x45° MAX. BREAK
MACHINE CORNERS 0.15x45° D MAX. FILLET
R. TOLERANCES ON DECIMALS
.X ±0.3 .XX ±0.15
ANGLES ±2° FRACTIONS ± N/A
Scale: 4:1 Size: A3 Code: IDEN

Low Loss Flexible LMR-240 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket



LMR-240



Times Microwave Systems Connector Specification

Configuration

- Low Loss, Outdoor Flexible Cable
- 2 Shield(s)

Features

- Max Operating Frequency of 8 GHz
- Low Loss Cable
- Phase Velocity 84% VoP

Applications

- General Purpose RF Interconnect
- Laboratory Applications

Description

LMR-240 part number from Pasternack is a LMR-240 coax cable that is flexible. Pasternack LMR-240 flexible coax cable is 50 Ohm and has a PE (F) dielectric. Our LMR-240 coax is constructed with a 0.24 jacket made of PE. LMR-240 coax has a shield count of 2, a RF shielding of 90 dB and the maximum frequency for this Pasternack cable is 8 GHz. LMR-240 coax cable has an attenuation at 1 GHz of 8 dB.

Pasternack LMR-240 coax cables are part of over 40,000 RF, microwave and millimeter wave components. LMR-240 cables and our other RF parts are available for same day shipping worldwide. Custom RF cable assemblies using LMR-240 or other coax can be built and shipped same day as well.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------------------------------|-------------|-------------|---------|--------------|
| Frequency Range | DC | | 8 | GHz |
| Cutoff Frequency | | 31 | | GHz |
| Impedance | | 50 | | Ohms |
| Velocity of Propagation | | 84 | | % |
| Time Delay | | 1.21 [3.97] | | ns/ft [ns/m] |
| Shielding Effectiveness | 90 | | | dB |
| Dielectric Withstanding Voltage (DC) | | | 1,500 | Vdc |
| Jacket Spark | | | 5,000 | Vrms |
| Inner Conductor DC Resistance | | 3.2 | | Ohms/1000ft |
| Outer Conductor DC Resistance | | 3.89 | | 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 |

Low Loss Flexible LMR-240 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket



LMR-240

Performance by Frequency Band

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-------|------|-------|-------|-------|----------|
| Frequency | 50 | 150 | 220 | 450 | 900 | MHz |
| Attenuation, Typ | 1.7 | 3 | 3.7 | 5.3 | 7.6 | dB/100ft |
| | 5.58 | 9.84 | 12.14 | 17.39 | 24.93 | dB/100m |
| Input Power (CW), Max | 1,150 | 660 | 540 | 380 | 260 | Watts |

| Description | F6 | F7 | F8 | F9 | F10 | Units |
|-----------------------|-------|-------|-------|-------|-------|----------|
| Frequency | 1.5 | 1.8 | 2 | 2.5 | 5.8 | GHz |
| Attenuation, Typ | 9.9 | 10.9 | 11.5 | 12.9 | 20.4 | dB/100ft |
| | 32.48 | 35.76 | 37.73 | 42.32 | 66.93 | dB/100m |
| Input Power (CW), Max | 200 | 180 | 170 | 150 | 100 | Watts |

Mechanical Specifications

| | |
|---------------------------------|--------------------------|
| Diameter | 0.24 in [6.1 mm] |
| Weight | 0.033 lbs/ft [0.05 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 | Aluminum Tape | |
| Second Shield | Tinned Copper Braid | |
| Jacket | PE, Black | 0.24 in [6.1 mm] |

Environmental Specifications

| Temperature | |
|-----------------|-----------------|
| Operating 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 Loss Flexible LMR-240 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket



LMR-240

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URL: <https://www.pasternack.com/50-ohm-low-loss-flexible-lmr240-pe-jacket-double-shielded-black-lmr-240-p.aspx>

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LMR-240 CAD Drawing

Low Loss Flexible LMR-240 Outdoor Rated Coax Cable Double Shielded with Black PE Jacket

