



Reverse Polarity SMA Male Connector Crimp/Solder Attachment for RG8X, PE-C240, LMR-240

RF Connectors Technical Data Sheet

PE44664

Configuration

- SMA Male Reverse Polarity Connector
- 50 Ohms
- Straight Body Geometry

- Connector Interface Types: PE-C240, RG8X, .240 inch, LMR-240, LMR-240-DB, LMR-240-UF, B7808A
- 5/16 inch Hex

Features

- Max. Operating Frequency 12.4 GHz
- Gold Plated Beryllium Copper Contact

- Reverse Polarity

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE44664 RP SMA 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. The male reverse polarity configuration uses a male connector body with a female inner contact receptacle. Our SMA male connector operates up to a maximum frequency of 12.4 GHz.

Our reverse polarity SMA male connector PE44664 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

Size

| | |
|---------------|---------------------------------|
| Length | 0.997 in [25.32 mm] |
| Width/Dia. | 0.312 in [7.92 mm] |
| Weight | 0.014 lbs [6.35 g] |
| 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: [Reverse Polarity SMA Male Connector Crimp/Solder Attachment for RG8X, PE-C240, LMR-240 PE44664](#)



Reverse Polarity SMA Male Connector Crimp/Solder Attachment for RG8X, PE-C240, LMR-240

RF Connectors Technical Data Sheet

PE44664

Material Specifications

| Description | Material | Plating |
|--------------|------------------|---------|
| Contact | Beryllium Copper | 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:

Reverse Polarity SMA Male Connector Crimp/Solder Attachment for RG8X, PE-C240, LMR-240 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.

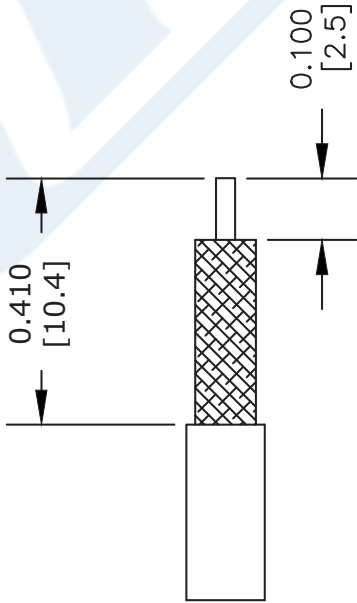
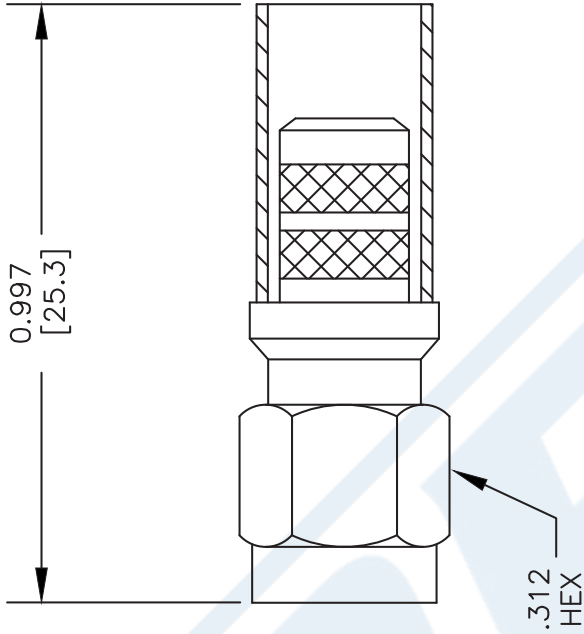
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URL: <https://www.pasternack.com/sma-male-reverse-polarity-rg8x-pe-c240-0.240-connector-pe44664-p.aspx>

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.

PE44664 CAD Drawing

Reverse Polarity SMA Male Connector Crimp/Solder
Attachment for RG8X, PE-C240, LMR-240



STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

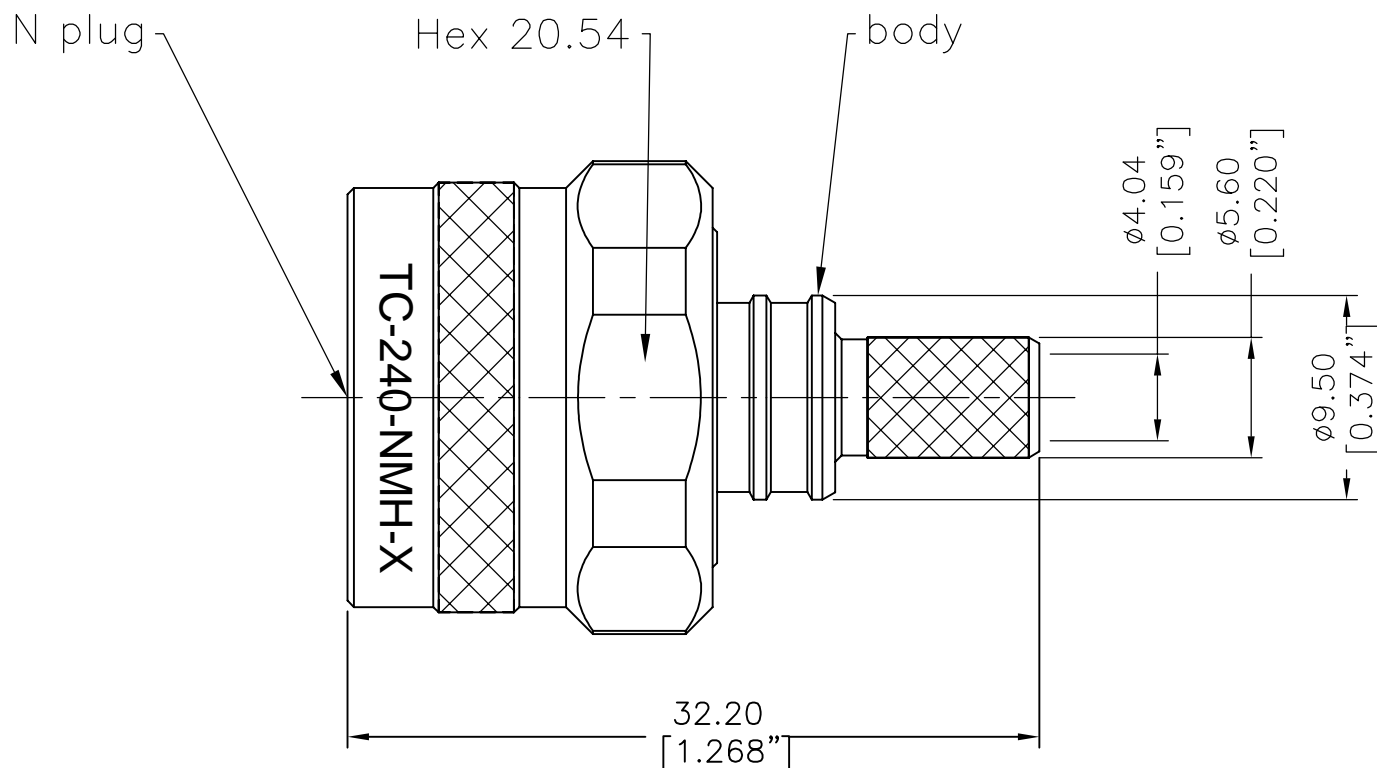
CONTACT: SOLDER

FERRULE: .255" 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 | XXXX |
| PE44664 | | | | | | | | |

**PASTERNAK®**
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I. MATERIALS & FINISHES

| Components | Materials | Finishes | Thk. (μ") |
|--------------|-----------|----------|-----------|
| Body | Brass | Albaloy | 80 |
| Center Cont. | Brass | Gold | 50 |
| Ferrule | Brass | Albaloy | 80 |
| Nut | Brass | Albaloy | 80 |
| Insulator | PTFE | -- | -- |
| Gasket | Silicone | -- | -- |

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 |

V. TOOLING

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

II. ELECTRICAL PROPERTIES

| | |
|-----------------------------|-------------|
| Impedance (Ω): | 50 |
| Frequency Range (GHz): | DC to 6 GHz |
| Working Voltage (V): | 2500 |
| Insulation Resistance (MΩ): | ≥10000 |
| VSWR: | ≤1.30 |
| Insertion Loss(dB, f/GHz): | -0.1x √f |

IV. MECHANICAL PROPERTIES

| | |
|------------------------------------|--------|
| Center Cont.: | Solder |
| Outer Cont.: | Crimp |
| Coupling Nut Torque (N.m): | 1.7 |
| Cbl-Connector Retention Force (N): | 250 |
| Durability (cycles): | 500 |



LMR-240-FR Fire Rated version of the 240 series Low Loss Coax

RF Cables Technical Data Sheet



LMR-240-FR

Times Microwave Systems Coax Cable Specification

Configuration

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

Features

- CMR Riser Rated Coax
- Non-Halogen, Low Smoke FRPE Jacket
- Max Operating Frequency of 5.8 GHz
- Phase Velocity 83% VoP
- Max Operating Temperature +85°C
- Min Install Bend Radius of 0.75 inches

Applications

- In-Building Riser Runs
- Short Antenna Installs
- RF Test Systems
- General Purpose RF Interconnect
- Laboratory Applications

Description

LMR-240-FR Fire Rated version of the 240 series Low Loss Coax from Times Microwave is part of the large product offering by Pasternack of radio frequency coaxial cable types specifically stocked to be ready for same-day shipment. Pasternack LMR-240-FR coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This low loss and CMR riser rated 50 Ohm coax cable LMR-240-FR is constructed with a 0.240 inch diameter and Black FRPE jacket.

LMR-240-FR flexible 50 Ohm coax cable with FRPE jacket is rated for a 5.8 GHz maximum operating frequency. This 50 Ohm 0.240 inch diameter and low loss fire rated coax cable is built with an aluminum double shield count and RF shielding of 90 dB. Times Microwave LMR-240-FR FRPE coax is constructed with Foam PE dielectric and a maximum operating temperature of 85 degrees C. Pasternack's offering of LMR-240-FR coax cable provides specs for this wire on its RF coax cable LMR-240-FR datasheet.

LMR-240-FR cable is part of more than one million RF, microwave parts in stock at Pasternack. This Times Microwave low loss flexible LMR-240-FR coax cable is ready to buy and can be shipped worldwide. Pasternack also maintains a wide selection of other radio frequency coaxial cable types that ship same-day from our warehouse as with the rest of our other RF/microwave components.

* LMR™ is a trademark of Times Microwave Systems.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|-----------|---------|------------|
| Frequency Range | DC | | 5.8 | GHz |
| Impedance | | 50 | | Ohms |
| Velocity of Propagation | | 83 | | % |
| Time Delay | | 1.21 3.97 | | ns/ft ns/m |
| Shielding Effectiveness | 90 | | | dB |
| Dielectric Withstanding Voltage (DC) | | | 1,500 | Vdc |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [LMR-240-FR Fire Rated version of the 240 series Low Loss Coax LMR-240-FR](#)



LMR-240-FR Fire Rated version of the 240 series Low Loss Coax

RF Cables Technical Data Sheet


LMR-240-FR

| | | |
|-------------------------------|-------------|--------------|
| 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 |

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 |
| 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 | |

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LMR-240-FR Fire Rated version of the 240 series Low Loss Coax

RF Cables Technical Data Sheet



LMR-240-FR

| | | |
|---------------|---------------|-------------------|
| Dielectric | Foam PE | 0.15 in [3.81 mm] |
| First Shield | Aluminum Tape | [] |
| Second Shield | Tinned Copper | [] |
| Jacket | FRPE, Black | 0.24 in [6.1 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:

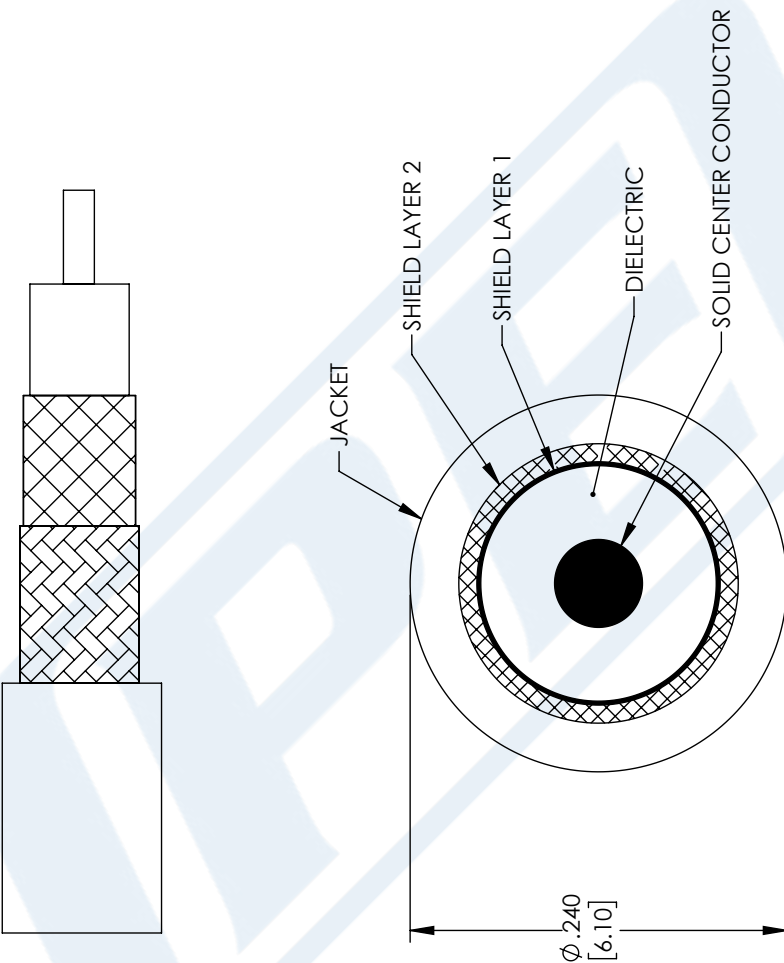
LMR-240-FR Fire Rated version of the 240 series Low Loss Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: <https://www.pasternack.com/low-loss-flexible-lmr-240-fr-frpe-jacket-aluminum-tape-over-tinned-copper-outer-conductor-double-shielded-lmr-240-fr-p.aspx>

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| REVISIONS | | | |
|-----------|-----------------|------------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 06-04-2021 | SELLIS |



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

TOLERANCES:

| | | |
|--------------|--------|-------------|
| X = ±.2 | [5.08] | FRACTIONS |
| .XX = ±.02 | [.51] | ±1/32 |
| .XXX = ±.005 | [.13] | ANGLES ± 1° |

CABLE LENGTH (L) TOLERANCES:

| | | |
|----------------------|--------|-----------------|
| L ≤ 12 | [305] | = +1 [25] / -0 |
| 12 [305] < L ≤ 60 | [1524] | = +2 [51] / -0 |
| 60 [1524] < L ≤ 120 | [3048] | = +4 [102] / -0 |
| 120 [3048] < L ≤ 300 | [7620] | = +6 [152] / -0 |
| 300 [7620] < L | | = +5% / -0 |

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

**PASTERNAK**
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THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE N/A

| | | | | |
|------|-----------|------------|------------|-----|
| SIZE | CAGE CODE | DRAWN BY | ITEM NO. | REV |
| A | 53919 | MVEERAPPAN | LMR-240-FR | A |

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