PASTERNACK
an INFINITE brand

# RP-TNC Jack Connector Crimp/Non-Solder Contact Attachment for LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240



## RF Connectors
## Technical Data Sheet

TIMES MICROWAVE SYSTEMS
An Amphenol Company

**EZ-240-TF-RP-X**

## Times Microwave Systems Connector Specification

### Configuration

- TNC Jack Reverse Polarity Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240

### Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.3:1
- Tri-Metal Plated Brass Contact
- 80 µin minimum contact plating
- Reverse Polarity

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

EZ-240-TF-RP-X RP TNC jack coaxial connector has an interface type of TNC jack LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, and PE-C240 and a 50 Ohms impedance. Pasternack's TNC jack connector uses crimp/non-solder contact as an attachment method. Our jack TNC coaxial connector provides a maximum frequency of 6 GHz.

The Pasternack TNC jack coaxial connector has a PTFE dielectric type and a VSWR of 1.3:1. Pasternack's TNC coaxial connector has a brass body with tri-metal plating. Our EZ-240-TF-RP-X TNC connector uses a tri-metal plated brass contact. Additional RF connector specs and dimensions for this component can be found on its PDF specification datasheet and CAD drawings above.

The radio frequency connector is made from brass material and has a contact life of 500 cycles or more. Our high-quality EZ-240-TF-RP-X features an 80 µin minimum body plating specification. The Pasternack EZ-240-TF-RP-X TNC connector operates at a temperature range of -40 to 125 deg C.

This Pasternack reverse polarity jack TNC connector will ship the same business day as purchased. Our TNC jack connector is part of over 40,000 RF, microwave, and millimeter wave components in stock for local, domestic, and international shipment. For further information on similar products, our expert technical support and trained sales team can get you the ideal RF connector as per your requirements.

### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Frequency Range | DC | | 6 | GHz |
| VSWR | | | 1.3:1 | |
| Insertion Loss | | | 0.24 | dB |
| Impedance | | 50 | | Ohms |
| Dielectric Withstanding Voltage (DC) | | | 1,500 | Vdc |
| Insulation Resistance | 5,000 | | | MOhms |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: RP-TNC Jack Connector Crimp/Non-Solder Contact Attachment for LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240 EZ-240-TF-RP-X

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RP-TNC Jack Connector Crimp/Non-Solder Contact Attachment for LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240



**RF Connectors**
**Technical Data Sheet**

TIMES MICROWAVE SYSTEMS
An Amphenol Company

**EZ-240-TF-RP-X**

Electrical Specification Notes:
Insertion Loss is 0.1*SQRT(fGHz) dB

## Mechanical Specifications

### Size

| | |
|---|---|
| Length | 1.20 in [30.48 mm] |
| Width | 0.43 in [10.92 mm] |
| Height | 0.43 in [10.92 mm] |
| Weight | 0.10 lbs [45.36 g] |
| Mating Cycles | 500 Cycles |
| Cable Retention Force | 250 lbs 113.4 kg |

### Material Specifications

| Description | Material | Plating |
|---|---|---|
| Contact | Brass | Tri-Metal<br>80 µin minimum |
| Insulation | PTFE | |
| Body | Brass | Tri-Metal<br>80 µin minimum |
| Crimp Sleeve | Brass | Tri-Metal<br>80 µin minimum |

## Environmental Specifications

### Temperature

| | |
|---|---|
| Operating Range | -40 to +125 deg C |
| Shock | MIL-STD 202G, Meth.213, Cond.G |
| Vibration | MIL-STD 202G, Meth.204, Cond.B |
| Thermal Shock | MIL-STD 202G, Meth.107, Cond.B |

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

## Plotted and Other Data

Notes:

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: RP-TNC Jack Connector Crimp/Non-Solder Contact Attachment for LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240 EZ-240-TF-RP-X

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# RP-TNC Jack Connector Crimp/Non-Solder Contact Attachment for LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240



## RF Connectors
## Technical Data Sheet

TIMES MICROWAVE SYSTEMS An Amphenol Company

**EZ-240-TF-RP-X**

RP-TNC Jack Connector Crimp/Non-Solder Contact Attachment for LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240 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: RP-TNC Jack Connector Crimp/Non-Solder Contact Attachment for LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240 EZ-240-TF-RP-X

URL: https://www.pasternack.com/tnc-jack-reverse-polarity-lmr-240-connector-ez-240-tf-rp-x-p.aspx

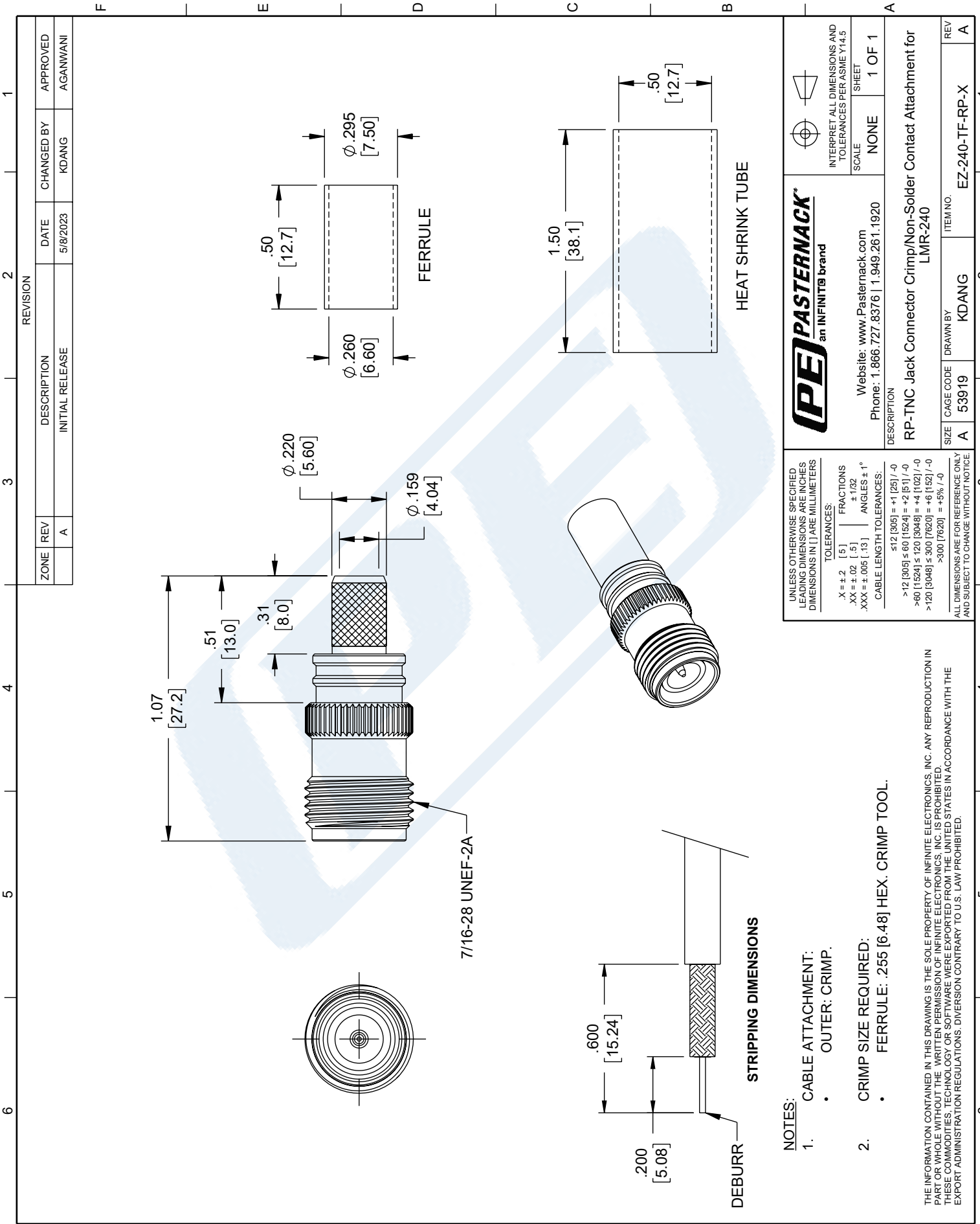
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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.

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# EZ-240-TF-RP-X CAD Drawing

RP-TNC Jack Connector Crimp/Non-Solder Contact Attachment for LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240




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PASTERNACK®
THE ENGINEER'S RF SOURCE



# 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

**Size**

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

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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



**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.

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

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

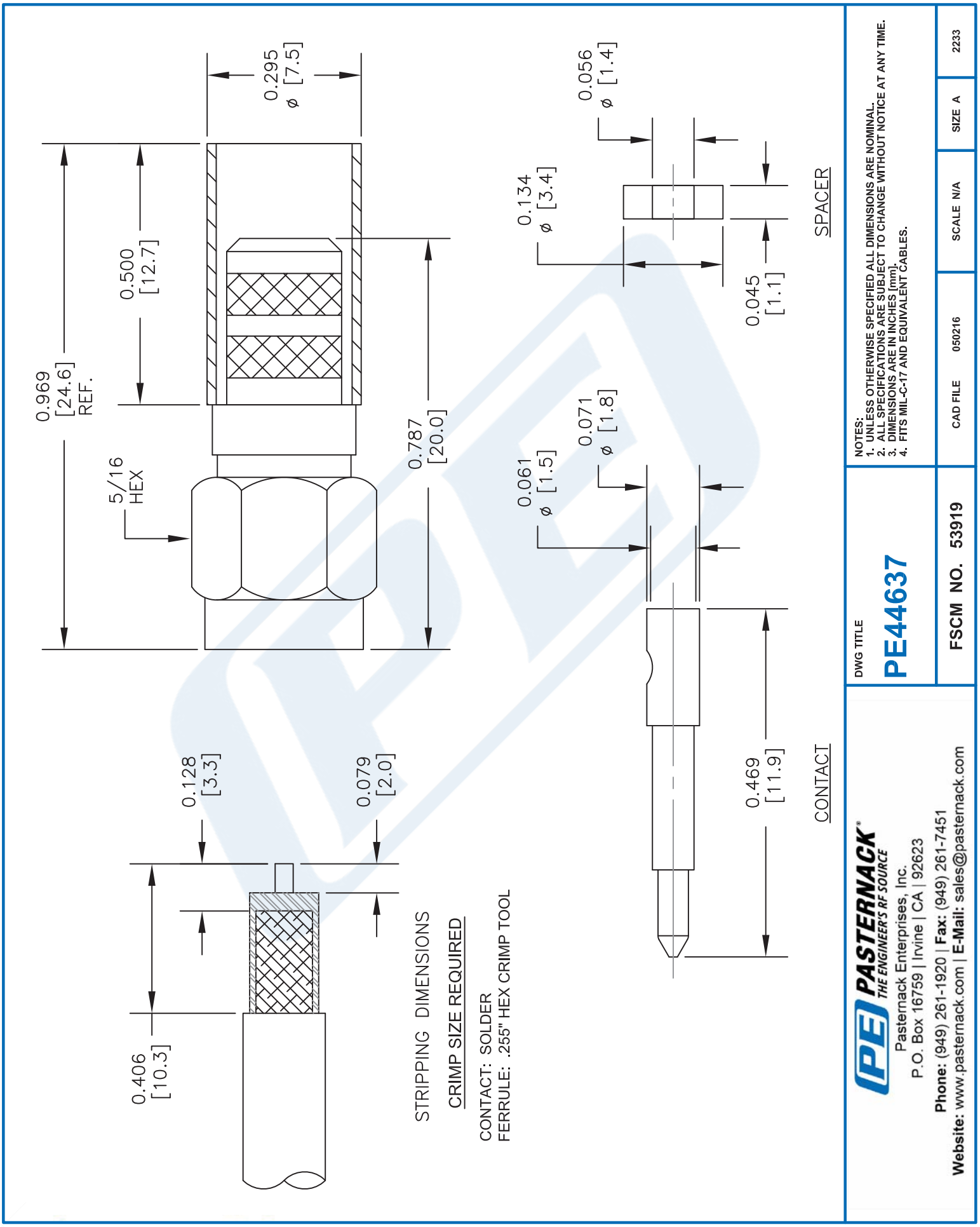
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# PE44637 CAD Drawing

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




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TIMES MICROWAVE SYSTEMS

# LMR®-240
# Flexible Low Loss Communications Coax

## Ideal for...

- Jumper Assemblies in Wireless Communications Systems
- Short Antenna Feeder runs (e.g. WLL, GPS, LMR, Mobile Antennas)
- Any application (e.g. WLL, GPS, LMR, WLAN, WISP, WiMax, SCADA, Mobile Antennas) requiring an easily routed, low loss RF cable




• **LMR®** standard is a UV Resistant Polyethylene jacketed cable designed for 20-year service outdoor use. The bending and handling characteristics are significantly better than air-dielectric and corrugated hard-line cables.

• **LMR®- DB** is identical to standard LMR plus has the advantage of being watertight. The addition of waterproofing compound in and around the foil/braid insures continuous reliable service should the jacket be inadvertently damaged during installation or in the future.

• **LMR®- FR** is a non-halogen (non-toxic), low smoke, fire retardant cable designed for in-building runs that can be routed anywhere except air handling plenums. LMR-FR is UL/NEC & CSA rated'CMR' and 'FT4' respectively, meets FAA FAR25 requirements and is MSHA-P for mining applications.

• **LMR®- FR-PVC** is a general-purpose indoor cable and has a UL/NEC & CSA rating of 'CMR' and 'FT4' respectively. It is less expensive than LMR-FR, however it emits toxic fumes (HCL) and greater smoke density when burned.

• **LMR®- PVC** is designed for low loss general-purpose applications and is somewhat more flexible than the standard polyethylene jacketed LMR.

• **LMR®- PVC-W** is a white-jacketed version of LMR-PVC for marine and other applications where color compatibility is desired.

• **LMR®- MA** is a flexible cable designed specifically for mobile antenna applications. It has a PVC jacket and un-bonded aluminum tape to facilitate end stripping with automated equipment.

• **Flexibility** and bendability are hallmarks of the LMR-240 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-240. 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-240 cables designed for outdoor exposure incorporate the best materials for UV resistance and have life expectancy in excess of 20 years.

• **Connectors**: A wide variety of connectors are available for LMR-240 cable, including all common interface types, reverse polarity, and a choice of solder or non-solder center pins. Most LMR connectors employ crimp outer attachment using standard hex crimp sizes.

• **Cable Assemblies**: All LMR-240 cable types are available as pre-terminated cable assemblies. Refer to the section on FlexTech for further details.

| Part Description | | | | Stock |
|---|---|---|---|---|
| Part Number | Application | Jacket | Color | Code |
| LMR-240 | Outdoor | PE | Black | 54021 |
| LMR-240-DB | Outdoor/Watertight | PE | Black | 54090 |
| LMR-240-FR | Indoor/Outdoor Riser CMR | FRPE | Black | 54029 |
| LMR-240-FR-PVC | Indoor/Outdoor Riser CMR | FRPVC | Black | 54214 |
| LMR-240-PVC | General Purpose | PVC | Black | 54140 |
| LMR-240-PVC-W | General Purpose | PVC | White | 54202 |
| LMR-240-MA | Indoor & Mobile Antenna | PVC | Black | 54046 |

| Construction Specifications | | | |
|---|---|---|---|
| Description | Material | In. | (mm) |
| Inner Conductor | Solid BC | 0.056 | (1.42) |
| Dielectric | Foam PE | 0.150 | (3.81) |
| Outer Conductor | Aluminum Tape | 0.155 | (3.94) |
| Overall Braid | Tinned Copper | 0.178 | (4.52) |
| Jacket | (see table above) | 0.240 | (6.10) |

## Mechanical Specifications

| Performance Property | Units | US | (metric) |
|---|---|---|---|
| Bend Radius: installation | in. (mm) | 0.75 | (19.1) |
| Bend Radius: repeated | in. (mm) | 2.5 | (63.5) |
| Bending Moment | ft-lb (N-m) | 0.25 | (0.34) |
| Weight | lb/ft (kg/m) | 0.034 | (0.05) |
| Tensile Strength | lb (kg) | 80 | (36.3) |
| Flat Plate Crush | lb/in. (kg/mm) | 20 | (0.36) |

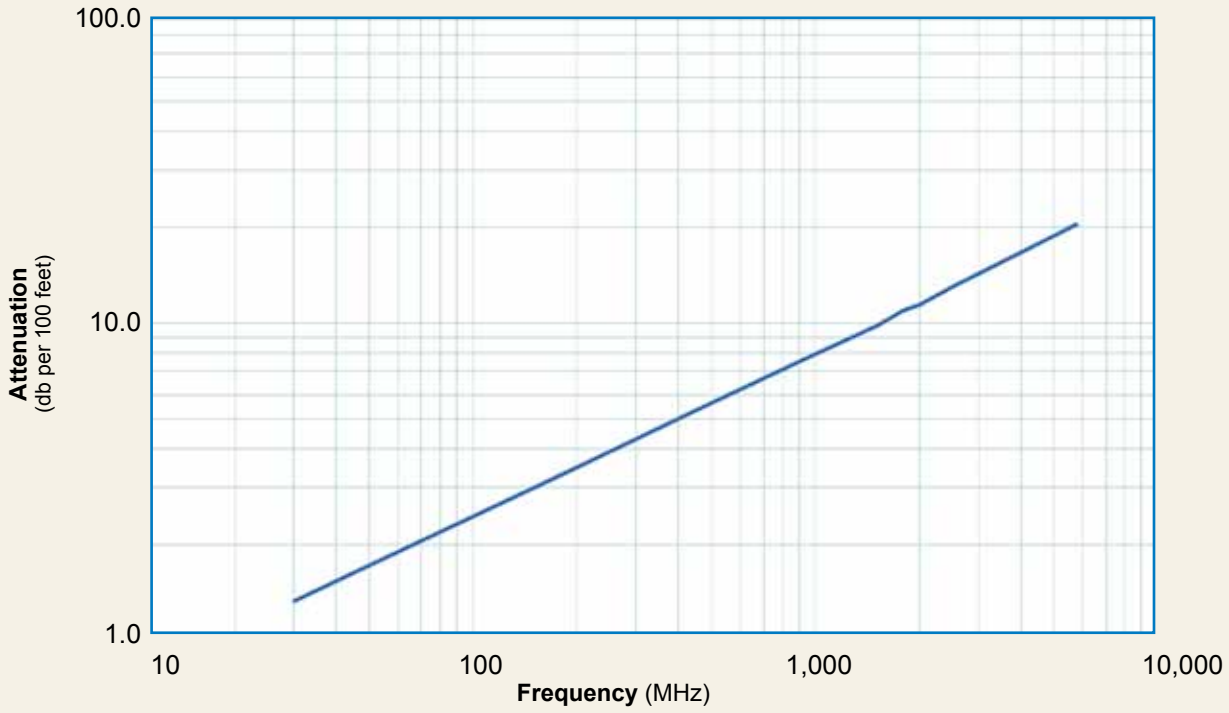
## Environmental Specifications

| 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) |
|---|---|---|---|
| Velocity of Propagation | % | 84 | |
| Dielectric Constant | NA | 1.42 | |
| Time Delay | nS/ft (nS/m) | 1.21 | (3.97) |
| Impedance | ohms | 50 | |
| Capacitance | pF/ft (pF/m) | 24.2 | (79.4) |
| Inductance | uH/ft (uH/m) | 0.060 | (0.20) |
| Shielding Effectiveness | dB | >90 | |
| DC Resistance | | | |
| Inner Conductor | ohms/1000ft (/km) | 3.2 | (10.5) |
| Outer Conductor | ohms/1000ft (/km) | 3.89 | (12.8) |
| Voltage Withstand | Volts DC | 1500 | |
| Jacket Spark | Volts RMS | 5000 | |
| Peak Power | kW | 5.6 | |

## Attenuation vs. Frequency (typical)




| Frequency (MHz) | 30 | 50 | 150 | 220 | 450 | 900 | 1500 | 1800 | 2000 | 2500 | 5800 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Attenuation dB/100 ft** | 1.3 | 1.7 | 3.0 | 3.7 | 5.3 | 7.6 | 9.9 | 10.9 | 11.5 | 12.9 | 20.4 |
| **Attenuation dB/100 m** | 4.4 | 5.7 | 9.9 | 12.0 | 17.3 | 24.8 | 32.4 | 35.6 | 37.7 | 42.4 | 66.8 |
| **Avg. Power kW** | 1.49 | 1.15 | 0.66 | 0.54 | 0.38 | 0.26 | 0.20 | 0.18 | 0.17 | 0.15 | 0.10 |

**Calculate Attenuation =**

$(0.242080) \cdot \sqrt{FMHz} + (0.000330) \cdot FMHz$ (interactive calculator available at http://www.timesmicrowave.com/cable_calculators)

**Attenuation:**

VSWR=1.0 ; Ambient = +25°C (77°F)

**Power:** VSWR=1.0; Ambient = +40°C; Inner Conductor = 100°C (212°F); Sea Level; dry air; atmospheric pressure; no solar loading

TIMES MICROWAVE SYSTEMS

# LMR®-240
# Flexible Low Loss 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 | Length (mm) | Width in | Width (mm) | Weight lb | Weight (g) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F Male | Straight Plug | TC-240-FM | 3190-924 | <1.25:1 (2.5) | Knurl | Solder | Crimp | N/G | 1.1 | (28) | 0.45 | (11.4) | 0.014 | (6.4) |
| N Male | Straight Plug | EZ-240-NMH-D | 3190-1127 | <1.25:1 (2.5) | Hex/Knurl | Spring Finger | Crimp | A/G | 1.5 | (38.1) | 0.78 | (19.8) | 0.086 | (39.0) |
| N Male | Right Angle | TC-240-NM-RA | 3190-2426 | <1.35:1 (6) | Hex | Solder | Crimp | A/G | 1.3 | (32.4) | 1.22 | (31.0) | 0.092 | (41.7) |
| N Male | Right Angle | TC-240-NMH-RA-D | 3190-2426 | <1.35:1 (6) | Hex/Knurl | Solder | Crimp | A/G | 1.2 | (32.4) | 1.22 | (31.0) | 0.091 | (41.7) |
| N Male | Straight Plug | TC-240-NMH-D | 3190-382# | <1.25:1 (2.5) | Hex/Knurl | Solder | Crimp | N/S | 1.5 | (38) | 0.75 | (19.1) | 0.086 | (39.0) |
| N Male | Straight Plug | TC-240-NMC | 3190-244 | <1.25:1 (2.5) | Knurl | Solder | Clamp | S/G | 1.5 | (38) | 0.75 | (19.1) | 0.082 | (37.2) |
| 1.0/2.3 DIN | Straight Plug | EZ-240-1023M | 3190-2512 | <1.35:1 (2.5) | knurl | Spring Finger | Crimp | N/G | 1.1 | (228.5) | 0.33 | (8.5) | 0.014 | (6.63) |
| N Female | Bulkhead Jack | TC-240-NF-BH | 3190-419 | <1.25:1 (2.5) | NA | Solder | Crimp | A/G | 1.7 | (44) | 0.88 | (22.2) | 0.115 | (52.2) |
| N Female | Panel Mount | TC-240-NF-BHF(A) | 3190-866# | <1.25:1 (2.5) | NA | Solder | Crimp | A/G | 1.7 | (44) | 0.88 | (22.2) | 0.115 | (52.2) |
| BNC Male | Straight Plug | TC-240-BMC | 3190-242 | <1.25:1 (2.5) | Knurl | Solder | Clamp | S/G | 1.7 | (43) | 0.56 | (14.2) | 0.040 | (18.1) |
| BNC Male | Straight Plug | TC-240-BM(A) | 3190-867 | <1.25:1 (2.5) | Knurl | Solder | Crimp | A/G | 1.7 | (43) | 0.5 6 | (14.2) | 0.043 | (19.5) |
| TNC Male | Straight Plug | EZ-240-TM | 3190-1128 | <1.25:1 (2.5) | Knurl | Spring Finger | Crimp | N/G | 1.4 | (34.3) | 0.59 | (15.0) | 0.043 | (19.5) |
| TNC Male | Straight Plug | TC-240-TM | 3190-275 | <1.25:1 (2.5) | Knurl | Solder | Crimp | N/G | 1.7 | (43) | 0.59 | (15.0) | 0.043 | (19.5) |
| TNC Male | Right Angle | TC-240-TM-RA | 3190-604 | <1.35:1 (2.5) | Knurl | Solder | Crimp | N/G | 1.3 | (33) | 0.57 | (14.5) | 0.055 | (24.9) |
| TNC Male | Reverse Polarity | EZ-240-TM-RP | 3190-970 | <1.25:1 (2.5) | Knurl | Spring Finger | Crimp | A/G | 1.4 | (36) | 0.59 | (15.0) | 0.043 | (19.5) |
| QMA Male | Straight Plug | EZ-240-QM | 3190-1533 | <1.25: (6) | Knurl | Spring Finger | Crimp | N/G | 1.2 | (30.0) | 0.41 | (10.5) | 0.014 | (6.35) |
| QMA Male | Right Angle | EZ-240-QM-RA | 3190-1539 | <1.25: (<6) | Knurl | Spring Finger | Crimp | N/G | 0.8 | (20.3) | 0.65 | (16.5) | 0.019 | (8.62) |
| SMA Male | Straight Plug | EZ-240-SM | 3190-1530 | <1:25: (6) | Hex | Spring Finger | Crimp | N/G | 1.0 | (25.4) | 0.32 | (8.1) | 0.016 | (7.26) |
| SMA Male | Straight Plug | TC-240-SM | 3190-380# | <1.25:1 (10) | Hex | Solder | Crimp | SS/G | 1.0 | (25) | 0.32 | (8.1) | 0.016 | (7.3) |
| SMA Male | Right Angle | TC-240-SM-RA | 3190-381# | <1.35:1 (6) | Hex | Solder | Crimp | SS/G | 0.8 | (20) | 0.65 | (16.5) | 0.019 | (8.6) |
| SMA Male | Reverse Polarity | TC-240-SM-RP | 3190-326 | <1.25:1 (2.5) | Hex | Solder | Crimp | SS/G | 1.0 | (25) | 0.32 | (8.1) | 0.016 | (7.3) |
| SMA Female | Bulkhead Jack | TC-240-SF-BH | 3190-824# | <1.25:1 (2.5) | NA | Solder | Crimp | SS/G | 1.1 | (29) | 0.31 | (7.9) | 0.019 | (8.6) |
| Mini-UHF | Straight Plug | TC-240-MUHF | 3190-445 | <1.25:1 (2.5) | Knurl | Solder | Crimp | N/G | 1.1 | (28) | 0.45 | (11.4) | 0.014 | (6.4) |

* 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


TC-240-SM-RA


TC-240-SM-RP


TC-240-SF-BH


TC-240-MUHF


EZ-240-QM


EZ-240-QM-RA


EZ-240-SM


TC-240-NF-BHF (A)


GK-S240TT

## Hardware Accessories

| Type | Part Number | Stock Code | Description |
|---|---|---|---|
| Ground Kit | GK-S240TT | GK-S240TT | Standard Ground Kit (each) |


CCT-01


RB-CST


DBT-U


CT-240/200/195/100


CST-240

## Install Tools

| Type | Part Number | Stock Code | Description |
|---|---|---|---|
| Crimp Tool | CT-240/200/195/100 | 3190-667 | Crimp tool for LMR-100, 195, 200 and 240 connectors |
| Strip Tool | CST-240 | 3192-070 | Strip tool |
| Deburr Tool | DBT-U | 3192-001 | Removes center conductor rough edges |
| Cutting Tool | CCT-01 | 3190-1544 | Cable end flush cut tool |
| Replacement Blade | RB-01 | 3190-1609 | Replacement blade for cutting tool |
| Replacement | RB-CST | 3192-086 | Replacement blade kit for all CST strip tools |