



N Female Bulkhead Connector Crimp/Solder Attachment
 For PE-C240, LMR-240, RG8X, .640 inch DD Hole

TECHNICAL DATA SHEET

PE44529

N Female Bulkhead Connector Crimp/Solder Attachment For PE-C240, LMR-240, RG8X, .640 inch DD Hole

Configuration

| | |
|--|------------------------|
| Connector | N Female |
| Connector Specification | MIL-STD-348A |
| Connector Interface Type | PE-C240, LMR-240, RG8X |
| Cable Attachment Method (Shield/Contact) | Crimp/Solder |
| Body Style | Straight |
| Mount Method | Bulkhead |

Electrical Specifications

| | |
|----------------------------------|----------|
| Frequency Range, GHz | DC to 11 |
| Impedance, Ohms | 50 |
| Maximum Operating Voltage, Volts | 1,500 |

Frequency 1

| | |
|----------------|---------|
| Frequency, GHz | DC to 6 |
| VSWR | 1.3:1 |

Mechanical Specifications

Temperature

| | |
|------------------------|-------------|
| Operating Range, deg C | -65 to +165 |
|------------------------|-------------|

Size

| | |
|---------------------|--------------|
| Length, in [mm] | 1.6 [40.64] |
| Width/Dia., in [mm] | 0.87 [22.10] |
| Weight, lbs [g] | 0.11 [49.9] |

Connector

| | |
|------------------------------|------------------|
| Type | N Female |
| Contact Material and Plating | Brass, Gold |
| Body Material and Plating | Brass, Tri-Metal |
| Dielectric Type | Teflon |

Compliance Certifications (visit www.Pasternack.com for current document)

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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female Bulkhead Connector Crimp/Solder Attachment For PE-C240, LMR-240, RG8X, .640 inch DD Hole PE44529](#)

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.



N Female Bulkhead Connector Crimp/Solder Attachment
For PE-C240, LMR-240, RG8X, .640 inch DD Hole

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Plotted and Other Data

Notes:

Values at 25 °C, sea level

N Female Bulkhead Connector Crimp/Solder Attachment For PE-C240, LMR-240, RG8X, .640 inch DD Hole from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

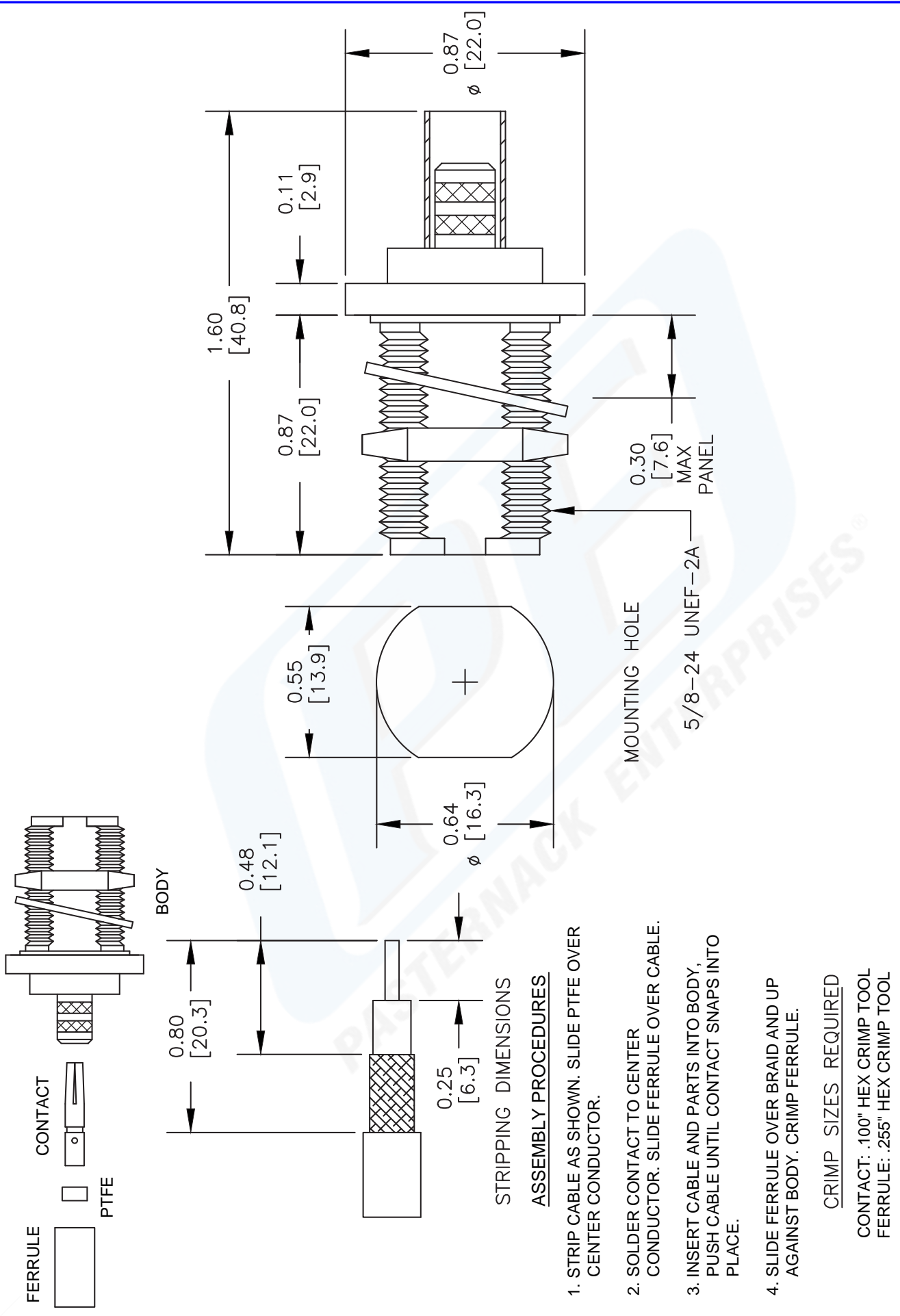
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female Bulkhead Connector Crimp/Solder Attachment For PE-C240, LMR-240, RG8X, .640 inch DD Hole PE44529](http://www.pasternack.com/n-female-standard-pe-c240-0.240-connector-pe44529-p.aspx)

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PE44529 CAD Drawing

N Female Bulkhead Connector Crimp/Solder Attachment For
PE-C240, LMR-240, RG8X, .640 inch DD Hole



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
PE44529

FSCM NO. 53919

CAD FILE 032213-B SCALE N/A SIZE A 2283

PE PASTERNAK®
Pasternack Enterprises, Inc.
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Website: www.pasternack.com | E-Mail: sales@pasternack.com



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](#)



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.

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



STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: SOLDER
FERRULE: .255" HEX CRIMP TOOL



CONTACT

SPACER

DWG TITLE

PE44637

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PE PASTERNAK®
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FSCM NO. 53919

CAD FILE 050216

SCALE N/A

SIZE A

2233

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 | |

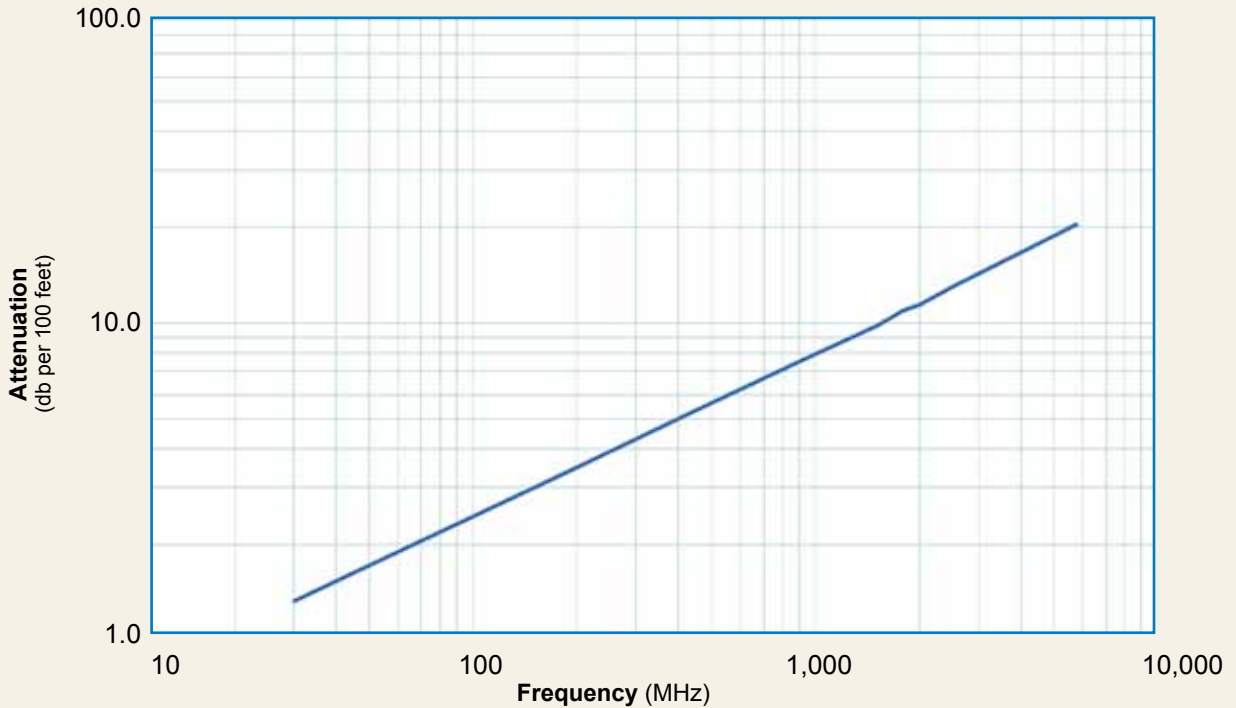
| Construction Specifications | | | |
|-----------------------------|-------------------|-------|--------|
| Description | Material | In. | (mm) |
| Inner Conductor | Solid BC | 0.056 | (1.42) |
| Dielectric | Foam PE | 0.150 | (3.81) |
| Outer Conductor | Aluminum Tape | 0.155 | (3.94) |
| Overall Braid | 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 =

$(0.242080) \cdot \sqrt{\text{FMHz}} + (0.000330) \cdot \text{FMHz}$ (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

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 (mm) | Width in (mm) | Weight lb (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 (28.5) | 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) | 0.56 (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 | <1.25:1 (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 | <1.25:1 (<6) | Knurl | Spring Finger | Crimp | N/G | 0.8 (20.3) | 0.65 (16.5) | 0.019 (8.62) |
| SM A Male | Straight Plug | EZ-240-SM | 3190-1530 | <1.25:1 (6) | Hex | Spring Finger | Crimp | N/G | 1.0 (25.4) | 0.32 (8.1) | 0.016 (7.26) |
| SM A 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) |
| SM A 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) |
| SM A 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=Alloy **VSWR spec based on 3 foot cable with a connector pair *Available in bulk pack



Hardware Accessories

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



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 |