



QMA Male Right Angle Connector Crimp/Non-Solder Contact Attachment for LMR-240, PE-C240

RF Connectors Technical Data Sheet

EZ-240-QM-RA-X

Configuration

- QMA Male Connector
- 50 Ohms
- Right Angle Body Geometry

- Connector Interface Types: LMR-240, PE-C240, LMR-240-UF

Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.3:1

- Gold Plated Beryllium Copper Contact
- 50 μ inches minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Times Microwave's EZ-240-QM-RA-X QMA male right angle connector offered by Pasternack with crimp/non-solder contact attachment for Times' LMR-240, PE-C240 and LMR-240-UF is part of our full line of RF components available for same-day shipping. Times Microwave's QMA male connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.3:1. Its right angle body geometry allows for easier connections in tight spaces.

Times Microwave's QMA male right angle connector EZ-240-QM-RA-X 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		6	GHz
VSWR			1.3:1	
Insertion Loss			0.25	dB
Dielectric Withstanding Voltage (DC)			1,000	Vdc
Insulation Resistance	5,000			MOhms

Mechanical Specifications

Weight	0.027 lbs [12.25 g]
Mating Cycles	100 Cycles
Cable Retention Force	250 lbs [113.4 kg]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Male Right Angle Connector Crimp/Non-Solder Contact Attachment for LMR-240, PE-C240 EZ-240-QM-RA-X](#)



QMA Male Right Angle Connector Crimp/Non-Solder Contact Attachment for LMR-240, PE-C240

RF Connectors Technical Data Sheet

EZ-240-QM-RA-X

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 50 μ inches minimum
Insulation	PTFE	
Outer Conductor	Brass	Tri-Metal 80 μ inches minimum
Body	Brass	Tri-Metal 80 μ inches minimum

Environmental Specifications

Temperature

Operating Range

Shock

Vibration

Altitude

-40 to +125 deg C

MIL-STD 202G, Meth, 107, Cond.B

MIL-STD 202G, Meth, 204, Cond.D

MIL-STD 202G, Meth, 213, Cond.I

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

Plotted and Other Data

Notes:

QMA Male Right Angle Connector Crimp/Non-Solder Contact Attachment for LMR-240, 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.

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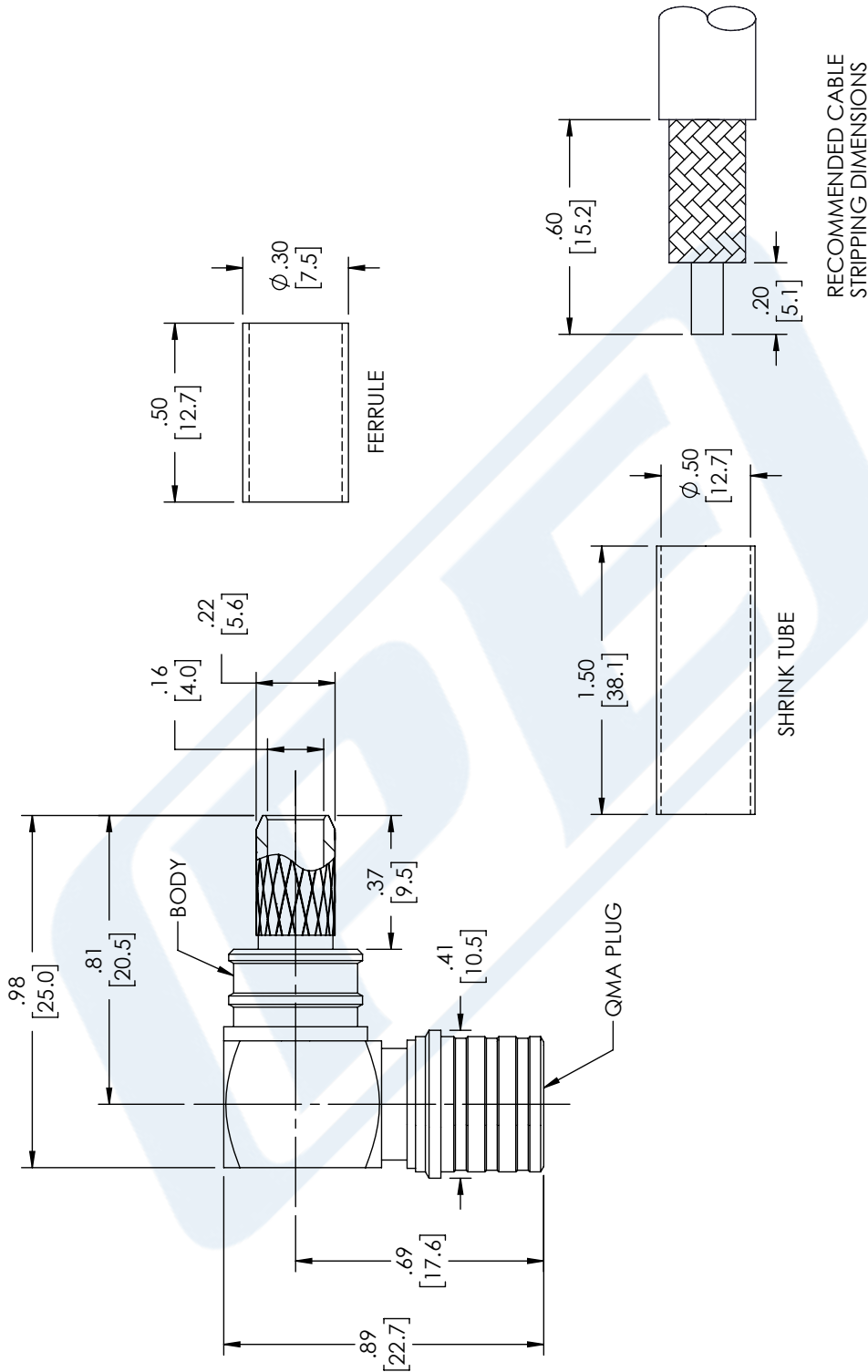
URL: <https://www.pasternack.com/qma-male-lmr-240-pe-c240-connector-ez-240-qm-ra-x-p.aspx>

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.

EZ-240-QM-RA-X CAD Drawing

QMA Male Right Angle Connector Crimp/Non-Solder
Contact Attachment for LMR-240, PE-C240

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
C	UPDATE MODEL/DIMENSIONS	3/7/22	RDELEON



<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.</p>		<p>SHEET 1 OF 1</p>		<p>SCALE N/A</p>	
<p>PE PASTERNAK an INFINITI brand</p> <p>Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 Website: www.pasternack.com E-mail: sales@pasternack.com</p>		<p>ITEM NO. EZ-240-QM-RA-X</p>		<p>REV C</p>	
<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p>		<p>TOLERANCES:</p> <p>FRACTIONS .X = ±.2 [5.08] .XX = ±.02 [5.1] .XXX = ±.005 [0.13]</p> <p>ANGLES ± 1°</p> <p>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</p>		<p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>	
<p>SIZE A</p>		<p>CAGE CODE 53919</p>		<p>DRAWN BY HBAKKE</p>	

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QMA Male QD 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


EZ-240-QM-X

Times Microwave Systems Connector Specification

Configuration

- QD QMA Male 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 8 GHz
- Good VSWR of 1.3:1
- Gold Plated Beryllium Copper Contact
- 50 µin minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

EZ-240-QM-X QMA male coaxial connector has an interface type of QMA male LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, and PE-C240 and a 50 Ohms impedance. Pasternack's QMA male connector uses crimp/non-solder contact as an attachment method. Our male QMA coaxial connector provides a maximum frequency of 8 GHz.

The Pasternack QMA male coaxial connector has a PTFE dielectric type and a VSWR of 1.3:1. Pasternack's QMA coaxial connector has a brass body with tri-metal plating. Our EZ-240-QM-X QMA connector uses a gold plated beryllium copper 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 100 cycles or more. Our high-quality EZ-240-QM-X features an 80 µin minimum body plating specification. The Pasternack EZ-240-QM-X QMA connector operates at a temperature range of -40 to 125 deg C.

This Pasternack male QMA connector will ship the same business day as purchased. Our QMA male 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		8	GHz
VSWR			1.3:1	
Insertion Loss			0.28	dB
Impedance		50		Ohms
Dielectric Withstanding Voltage (DC)			1,000	Vdc
Insulation Resistance	5,000			MOhms

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

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QMA Male QD 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

Mechanical Specifications

Size	
Length	1.07 in [27.28 mm]
Width	0.41 in [10.49 mm]
Height	0.41 in [10.49 mm]
Weight	0.10 lbs [45.36 g]
Mating Cycles	100 Cycles
Cable Retention Force	250 lbs 113.4 kg

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 50 µin minimum
Insulation	PTFE	
Body	Brass	Tri-Metal 80 µin minimum
Coupling Nut	Brass	Tri-Metal 80 µin minimum
Gasket	Silicone	
Crimp Sleeve	Brass	Tri-Metal 80 µin minimum

Environmental Specifications

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

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

Plotted and Other Data

Notes:

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QMA Male QD 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



EZ-240-QM-X

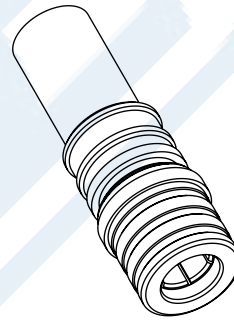
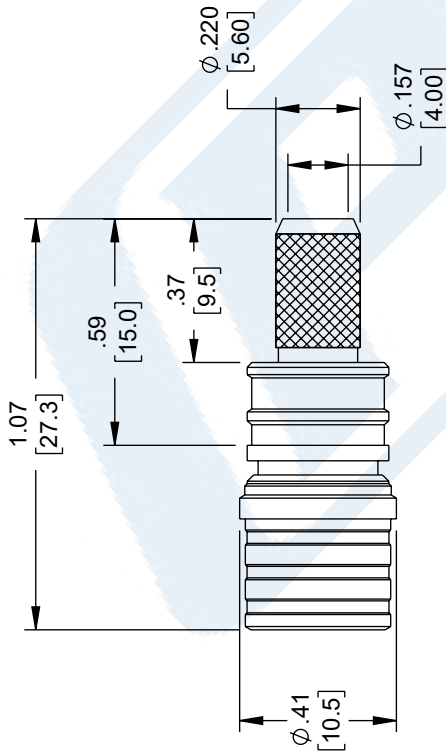
QMA Male QD Connector Crimp/Non-Solder Contact Attachment for LMR-240, LMR-240-DB, LMR-240-UF, LMR-240-FR, RG8X, PE-C240 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
A		INITIAL RELEASE	5/18/2023	KDANG	AGANWANI



STRIPPING DIMENSIONS

NOTES:

- CABLE ATTACHMENT:
OUTER: CRIMP.
- CRIMP SIZE REQUIRED:
FERRULE: .255 [6.48] HEX. CRIMP TOOL.

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DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
X = ± .2 [5] FRACTIONS
.XX = ± .02 [.5] ± 1/32
.XXX = ± .005 [.13] ANGLES ± 1°
CABLE LENGTH TOLERANCES:
≤ 12 [305] = +1 [25] / -0
> 12 [305] ≤ 60 [1524] = +2 [51] / -0
> 60 [1524] ≤ 120 [3048] = +4 [102] / -0
> 120 [3048] ≤ 300 [7620] = +6 [152] / -0
> 300 [7620] = +5% / -0

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DESCRIPTION

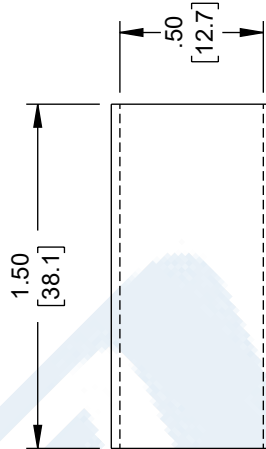
QMA Male QD Connector Crimp/Non-Solder Contact Attachment for LMR-240

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
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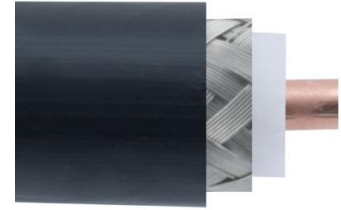


INTERPRET ALL DIMENSIONS AND
TOLERANCES PER ASME Y14.5
SCALE NONE SHEET 1 OF 1

HEAT SHRINK TUBE



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.

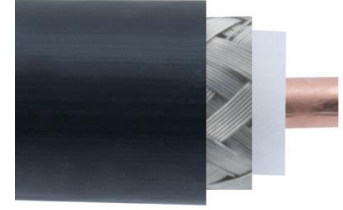
Our TCOM-240 coax cable can operate at temperatures ranging from -40 to 85 deg C. The black-colored coax RF cable has a typical insertion loss/attenuation of 3, 5.3, 7.5, 12, 19, 28, and 40 dB/100ft at frequencies of 150 MHz, 450 MHz, 900 MHz, 2000 MHz, 5000 MHz, 10000 MHz and 18000 MHz respectively. 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

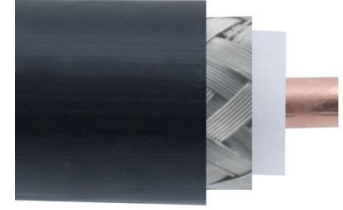
Mechanical Specifications

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

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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URL: <https://www.pasternack.com/tcom240-low-pim-flexible-coax-cable-pe-jacket-tcom-240-p.aspx>

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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

