



SMA Male Right Angle Connector Crimp/Non-Solder Contact Attachment for LMR-240

RF Connectors Technical Data Sheet



EZ-240-SM-RA-X

Times Microwave Systems Connector Specification

Configuration

- SMA Male Connector
- MIL-STD-348
- 50 Ohms
- Right Angle Body Geometry
- Connector Interface Types: LMR-240
- 5/16 Inch Hex

Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.3:1
- Gold Plated Brass/Phosphor Bronze Contact
- 50 µinch contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Times Microwave's EZ-240-SM-RA-X SMA male right angle connector offered by Pasternack with crimp/non-solder contact attachment for Times' LMR-240 is part of our full line of RF components available for same-day shipping. Times Microwave's SMA 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 SMA male right angle connector EZ-240-SM-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 (AC)			1,000	Vrms
Insulation Resistance	5,000			MOhms

Mechanical Specifications

Size

Length	0.725 in [18.42 mm]
Width/Dia.	0.312 in [7.92 mm]
Height	0.88 in [22.35 mm]
Weight	0.021 lbs [9.53 g]

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



SMA Male Right Angle Connector Crimp/Non-Solder Contact Attachment for LMR-240

RF Connectors Technical Data Sheet



EZ-240-SM-RA-X

Mating Cycles
Mating Torque

500 Cycles
7 to 10 in-lbs [0.79 to 1.13 Nm]

Material Specifications

Description	Material	Plating
Contact	Brass/Phosphor Bronze	Gold 50 µinch
Insulation	Teflon	
Body	Brass	Tri-Metal 80 µinch
Coupling Nut	Brass	Tri-Metal 80 µinch

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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EZ-240-SM-RA-X

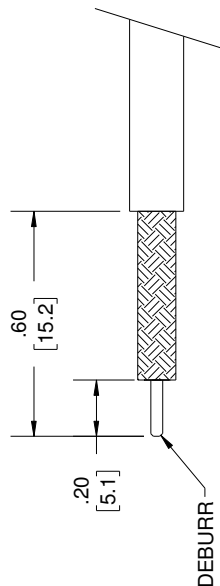
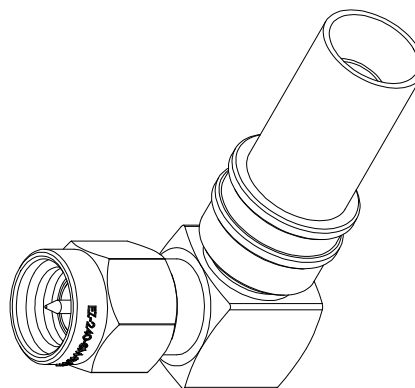
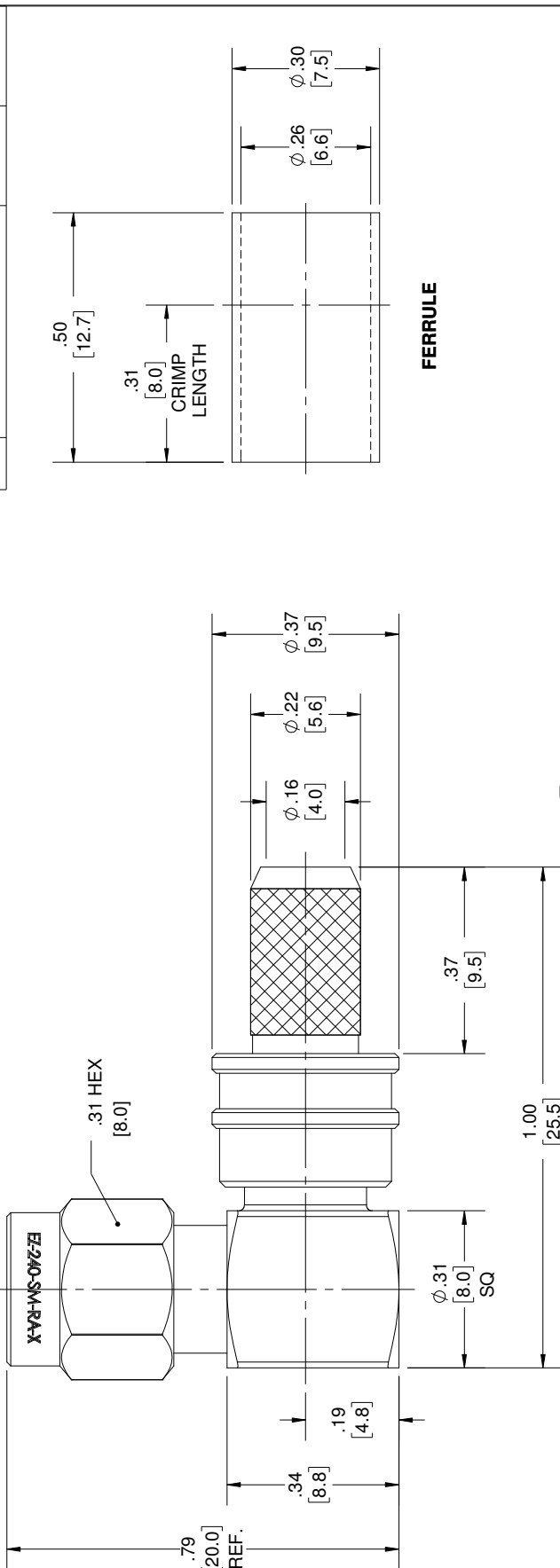
SMA Male Right Angle Connector Crimp/Non-Solder Contact Attachment for LMR-240 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	PCR EZ-240-SM-RA-X 20200511	06/15/2020	SRAUTUS



STRIPPING DIMENSIONS

NOTES:

1. CABLE ATTACHMENT:
 - OUTER: CRIMP.
 - INNER: NON-SOLDER.
2. CRIMP SIZE REQUIRED:
 - FERRULE: .255 [6.48] HEX. CRIMP TOOL.

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE IN 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
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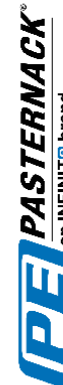


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SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	PART NUMBER	REV
A	53919	K.DANG	EZ-240-SM-RA-X	B



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E-mail: sales@pasternack.com



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EZ-240-SM-RA-X

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Mating Torque

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Shock

Vibration

Thermal Shock

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

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

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

Plotted and Other Data

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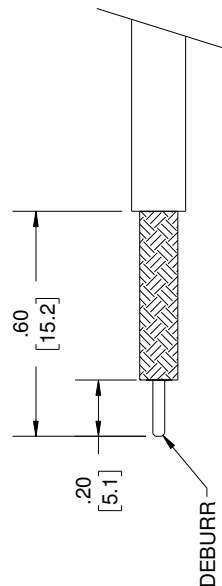
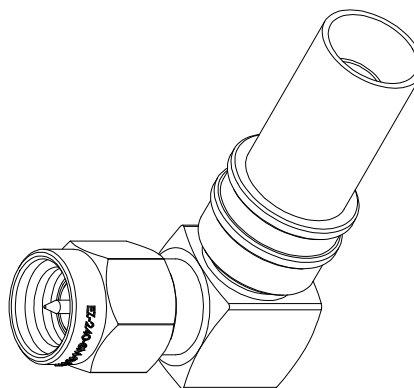
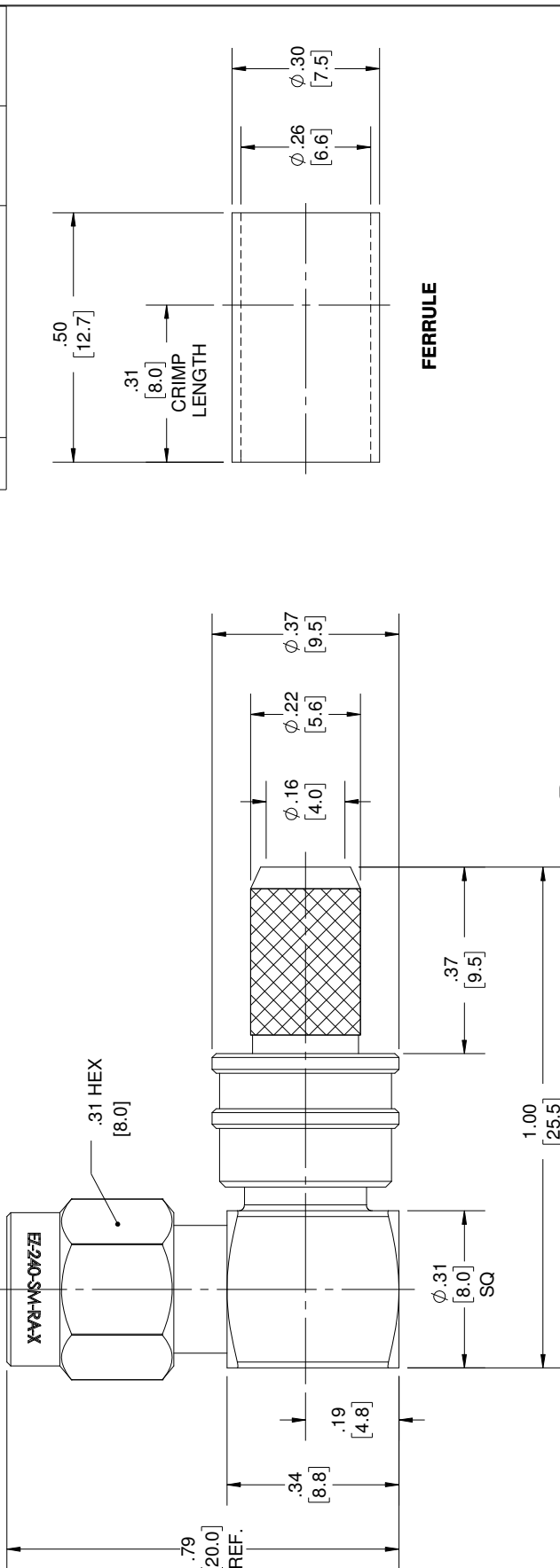
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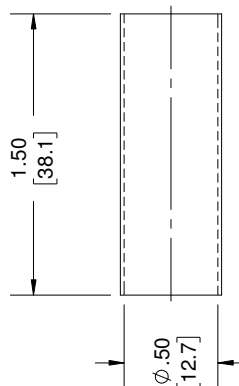
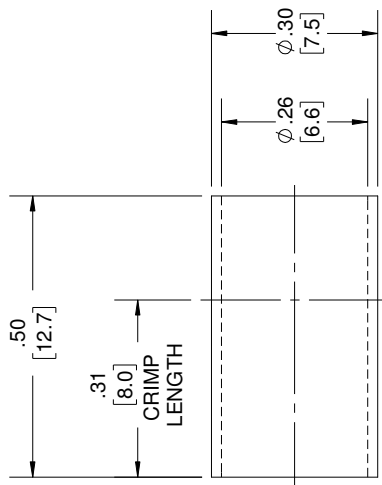


STRIPPING DIMENSIONS

NOTES:

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

FERRULE



SHRINK TUBE (1/2"x1.5" 3:1)

UNLESS OTHERWISE SPECIFIED
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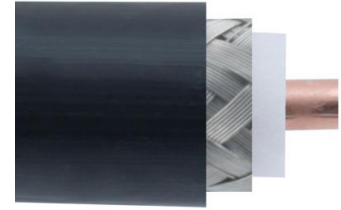
SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	PART NUMBER	REV
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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.

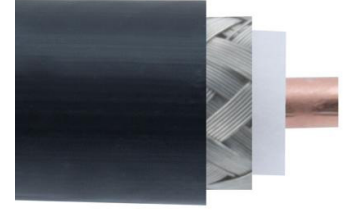
Our TCOM-240 coax cable can operate at temperatures ranging from -40 to 85 deg C. The black-colored coax RF cable has a typical insertion loss/attenuation of 3, 5.3, 7.5, 12, 19, 28, and 40 dB/100ft at frequencies of 150 MHz, 450 MHz, 900 MHz, 2000 MHz, 5000 MHz, 10000 MHz and 18000 MHz respectively.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

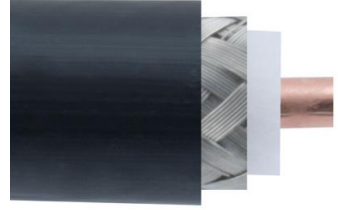
Mechanical Specifications

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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TCOM-240-FR CAD Drawing

Low PIM Flexible TCOM-240-FR Fire Rated Coax Cable Triple Shielded with Black FRPE Jacket

