

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

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

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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

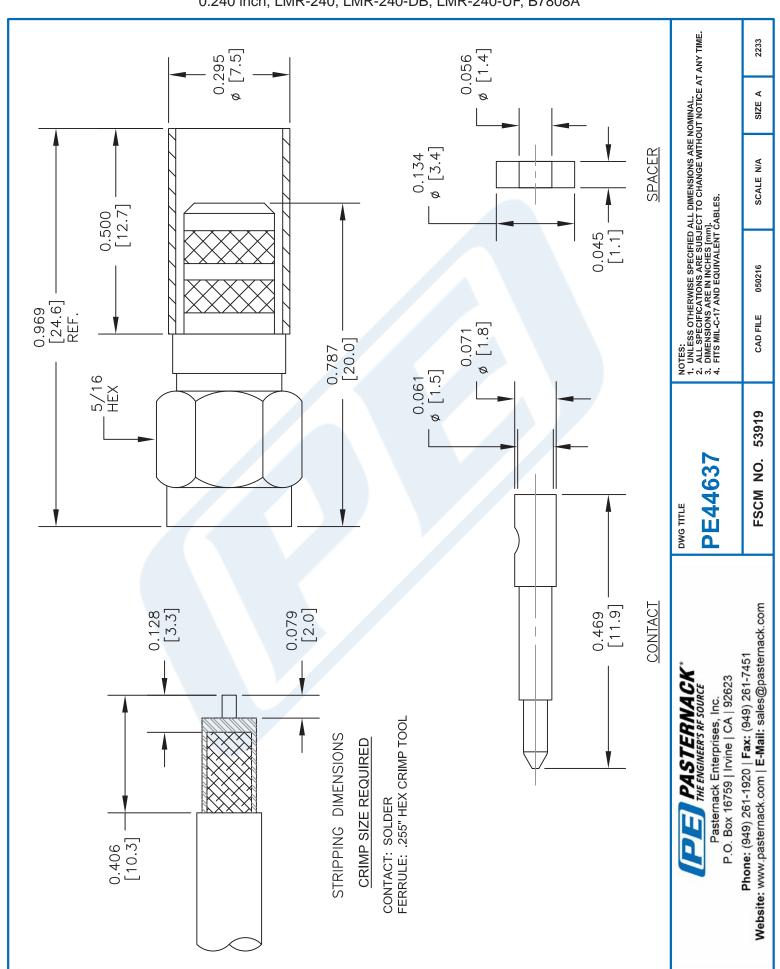
URL: https://www.pasternack.com/sma-male-standard-rg8x-pe-c240-0.240-connector-pe44637-p.aspx

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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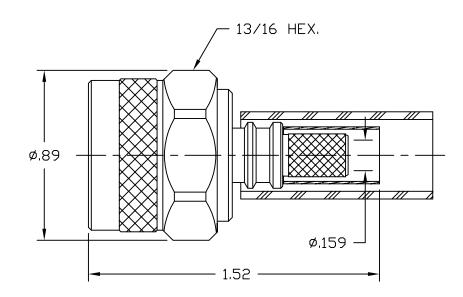
PE44637 CAD Drawing

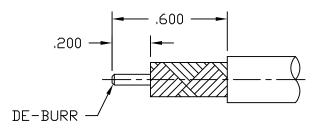
SMA Male Connector Crimp/Solder Attachment for PE-C240, RG8X, 0.240 inch, LMR-240, LMR-240-DB, LMR-240-UF, B7808A



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MYS	REVISION DESCRIPTION	DFTM	DATE	APPD	DATE
Α	RELEASED FOR PRODUCTION	D.J.H.	10/17/13	J.D.B.	10/21/13





CABLE PREPARATION
USE CST-240A (3192-152)
STRAIGHT SETTING.
CRIMP .255" HEX.

- 1.0 PERFORMANCE
- 1.1 FREQUENCY RANGE: DC-6 GHz
- 1.2 NOMINAL IMPEDANCE: 50 OHMS
- 1.3 DWV: 750 VRMS @ 60 Hz (SEA LEVEL)
- 1.4 TEMPERATURE RANGE: -65°C TO +165°C
- 2.0 MATERIALS
- 2.1 DIELECTRIC: PTFE
- 2.2 CONTACT: BRASS
- 2.3 LOCKING RING: PHOSPHOR BRONZE

CONTACT

- 2.4 CRIMP FERRULE: SOFT COPPER
- 2.5 OTHER METAL PARTS: BRASS
- 2.6 GASKET: SILICONE RUBBER
- 2.7 HEAT SHRINK: POLYOLEFIN THICK WALL
- 3.0 FINISHES

.050" GAP -

- 3.1 CONTACT: GOLD/NI
- 3.2 BODY: ALBALOY
- 4.0 MECHANICAL
- 4.1 INTERFACE PER MIL-STD-348

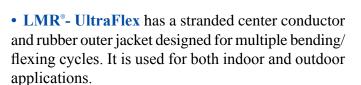
MATL:	UNLESS OTHERWISE SPECIFIED DFTM.D. J. H.	S MICDOUAVE SYSTEMS
	ALL DIMENSIONS ARE IN INCHES MACHINED SURFACES FINISH N/A RMS MAX.	S MICROWAVE SYSTEMS
	REMOVE ALL BURRS . 005 MAX. BREAK CHKD. J. D. B.	TC-240-NMH-X
NZED ON: 4	TOLERANCES ON DECIMALS DATE 10/21/13 N MA	LE FOR LMR-240 CABLE
	. XX ± . 03 . XXX ± . 005 ANGLES ± 1° FRACTIONS ± 1/32 APPD. J. D. B. SOLDI	ER/CRIMP/NO BRAID TRIM
SCALE: N/A	DWG. A DO NOT SCALE DRAWING CODE 68999 DATE 10/21/13 1 of	1 SD3190-2887 🖁 A



LMR®-240-UF UltraFlex Communications Coax

Ideal for...

- Jumper Assemblies in Wireless Communications Systems
- Short Antenna Feeder runs (e.g. WLL, GPS, LMR, Mobile Antennas)
- Any application that requires periodic/repeated flexing



- Flexibility and bendability are hallmarks of the LMR-240-UF 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-UF. 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-UF cables are designed for outdoor exposure and have a life expectancy in excess of 10 years.
- Connectors: A wide variety of connectors are available for LMR-240-UF cable, including all common interface types, reverse polarity, and solder-on center pins. Most LMR connectors employ crimp outer attachment using standard hex crimp sizes.
- Cable Assemblies: All LMR-240-UF cable types are available as pre-terminated cable assemblies. Refer to the section on FlexTech for further details.

Part Description					
Part Number	Application	Jacket	Color	Stock Code	
LMR-240-UF	Indoor/Outdoor	TPE	Black	54041	

Construction Specifications							
Description	Material	ln.	(mm)				
Inner Conductor	Stranded BC	0.056	(1.42)				
Dielectric	Foam Polyethylene	0.150	(3.81)				
Outer Conductor	Aluminum Tape	0.155	(3.94)				
Overall Braid	Tinned Copper	0.178	(4.52)				
Jacket	Black Thermoplastic Elastomer	0.240	(6.10)				

LMR-240.ULTRAFLEX TIMES MICH

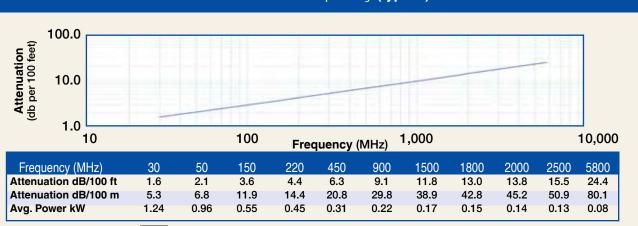
Mechanical Specifications							
Performance Property	Units	US	(metric)				
Bend Radius: installation	in. (mm)	0.75	(19.1)				
Bend Radius: repeated	in. (mm)	2.5	(63.5)				
Bending Moment	ft-lb (N-m)	0.125	(0.17)				
Weight	lb/ft (kg/m)	0.034	(0.05)				
Tensile Strength	lb (kg)	80	(36.3)				
Flat Plate Crush	lb/in. (kg/mm)	13	(0.23)				

Environmental Specifications					
Performance Property	۰F	°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	n %	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)	4.28	(14.1)			
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)



Calculate Attenuation = (0.290501) • √FMHz + (0.000396) • 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



Connect	tors	Part	Stock	VSV	VR**	Coupling	Inner	Outer Contact		ı,	enath	Width	We	ight
Interface	Description	Number	Code	Freq.			Attach	Attach	/Pin	in	(mm)	in (mm)	lb	(g)
1. 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)
2. 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)
3. 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)
4. N Male	Straight Plug	TC-240-NMH-D	3190-382	<1.25:1	(2.5)	Hex	Solder	Crimp	N/S	1.5	(38)	0.75(19.1)	0.086	(39.0)
5. 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)
6. 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)
7. SMA Male	Reverse Polari	tyTC-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)
8. TNC Male	Straight Plug	TC-240-TM	3190-275	<1.25:1	(2.5)	Knurl	Solder	Crimp	N/S	1.7	(43)	0.59(15.0)	0.043	(19.5)
9. N Male	3 . 3 .	TC-240-NMH-RA-D	3190-2426	<1.35:1	(6)	Hex/Knurl	Solder	Crimp	A/G		(32.4)	1.22 (31.0)	0.091	(41.7)

^{*} Finish metals: N=Nickel, S=Silver, G=Gold, SS=Stainless Steel, A=Alballoy **VSWR spec based on 3 foot cable with a connector pair

Hardware Accessories

3190-2426

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

Install Tools

Туре	Part Number	Stock Code	Description
Crimp Tool	CT-240/200/195/100	3190-667	Crimp tool for LMR-100, 195, 200 and 240 connectors
Cutting Tool	CCT-01	3190-1544	Cable end flush cut tool
Replacemen	t Blade RB-01	3190-1609	Replacement blade for cutting tool

