

## SMA Female Bulkhead Mount Connector Crimp Attachment for LMR240, RG8X, PE-C240, TCOM-240-FR, LMR-240-UF, LMR-240-DB, TCOM-240, LMR-240-FR



### PE5133

#### Configuration

- SMA Female Connector
- 50 Ohms
- Connector Interface Types: LMR240, RG8X, PE-C240, TCOM-240-FR, LMR-240-UF, LMR-240-DB, TCOM-240, LMR-240-FR, LMR-LW240
- Bulkhead

#### Features

- Max. Operating Frequency 6 GHz
- Excellent VSWR of 1.25:1
- Gold Plated Beryllium Copper Contact

#### Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

#### Description

Pasternack's PE5133, SMA, Connector is part of our full line of RF components available for same-day shipping. Our SMA female connector operates up to a maximum frequency of 6 GHz and offers excellent VSWR of 1.25:1. This SMA bulkhead connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Our SMA female bulkhead connector PE5133 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			1.25:1	
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Impedance		50		Ohms

#### Mechanical Specifications

##### Size

Length	1.04 in [26.42 mm]
Width	0.49 in [12.45 mm]
Height	0.43 in [10.92 mm]
Weight	0.012 lbs [5.44 g]

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## PE5133

### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold
Insulation	PTFE	
Body	Brass	Tri-metal
Gasket	Silicone Rubber	
Crimp Sleeve	Brass	Tri-metal

### Environmental Specifications

**Temperature**

Operating Range -40 to +155 deg C

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

### Plotted and Other Data

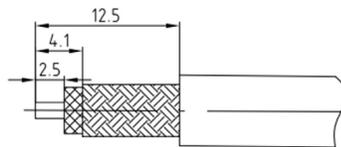
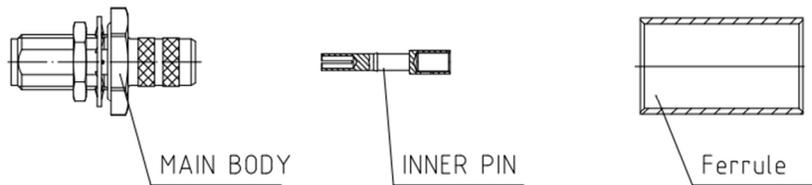
Notes:

SMA Female Bulkhead Mount Connector Crimp Attachment for LMR240, RG8X, PE-C240, TCOM-240-FR, LMR-240-UF, LMR-240-DB, TCOM-240, LMR-240-FR

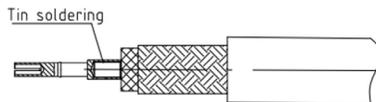


**PE5133**

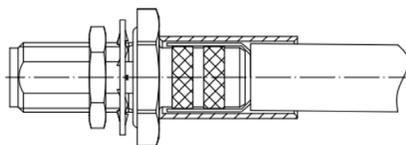
**Assembly Instruction**



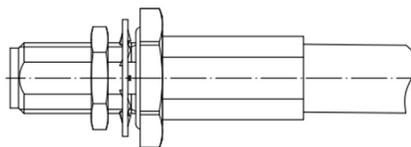
- 1.A. Stripping dimension is as shown by diagram, attention should be paid while stripping.
- B. Remove residual burr.



- 2.A. Solder inner conduct.
- B. Remove residual burr.



3. Put the connector in place, Then push the ferrule.



- 4.A. Compression crimping sleeve
- B. Push the heat shrink tube, blow it with heat gun.

## SMA Female Bulkhead Mount Connector Crimp Attachment for LMR240, RG8X, PE-C240, TCOM-240-FR, LMR-240-UF, LMR-240-DB, TCOM-240, LMR-240-FR



### PE5133

SMA Female Bulkhead Mount Connector Crimp Attachment for LMR240, RG8X, PE-C240, TCOM-240-FR, LMR-240-UF, LMR-240-DB, TCOM-240, LMR-240-FR 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.

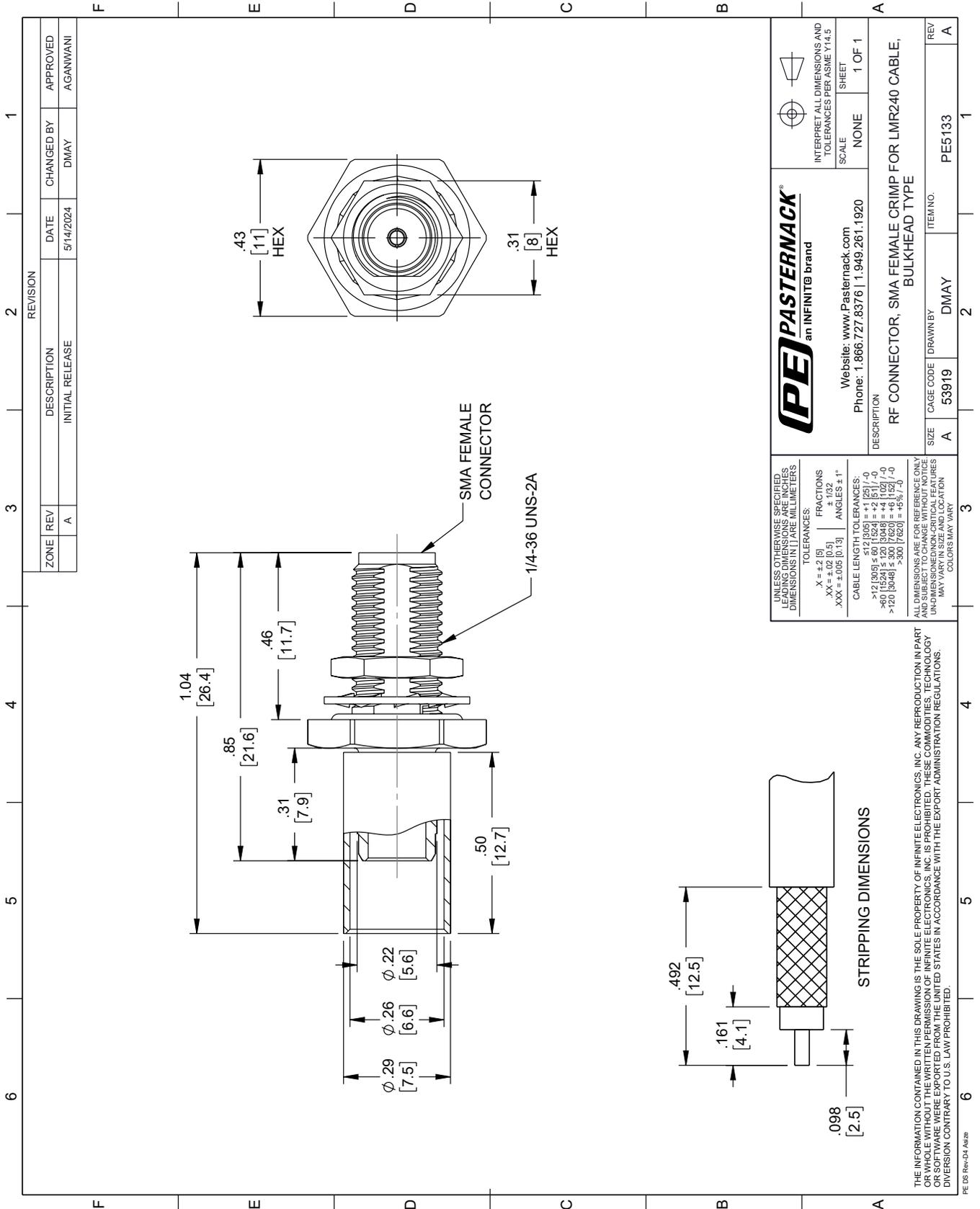
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Bulkhead Mount Connector Crimp Attachment for LMR240, RG8X, PE-C240, TCOM-240-FR, LMR-240-UF, LMR-240-DB, TCOM-240, LMR-240-FR PE5133](https://www.pasternack.com/sma-female-lmr240-rg8x-fr-lmr-240-uf-connector-pe5133-p.aspx)

URL: <https://www.pasternack.com/sma-female-lmr240-rg8x-fr-lmr-240-uf-connector-pe5133-p.aspx>

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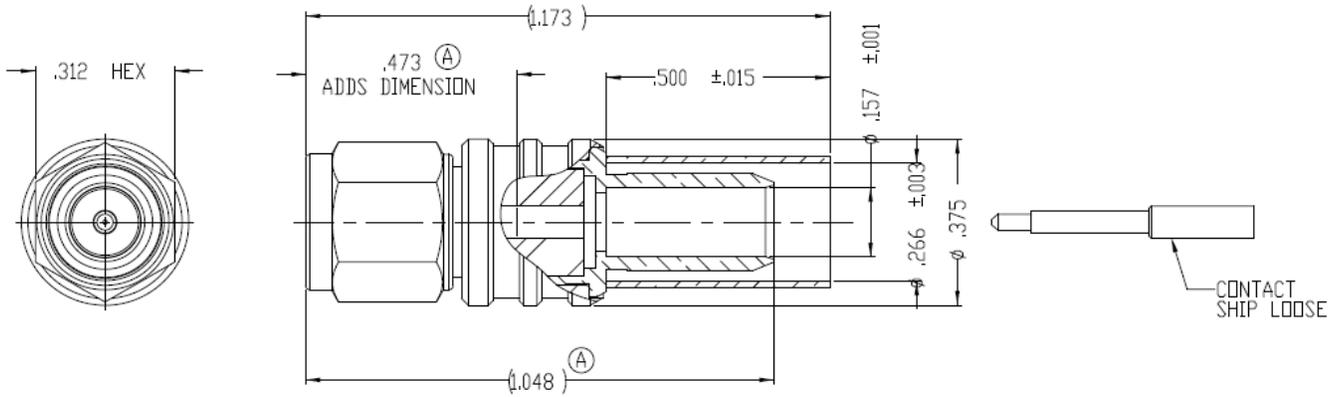
# PE5133 CAD Drawing

SMA Female Bulkhead Mount Connector Crimp Attachment for LMR240, RG8X, PE-C240, TCOM-240-FR, LMR-240-UF, LMR-240-DB, TCOM-240, LMR-240-FR



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SYM	REVISION DESCRIPTION	DFTM	DATE	APPD	DATE
A	RELEASED FOR PRODUCTION	N. N. N	9/4/13	J. D. B.	9/10/13



**NOTES:**

- ASSEMBLED CONNECTOR INTERFACE IS DESIGNED IN ACCORDANCE WITH MIL-STD-348
- MATERIAL:**

CLAMP & CONTACT - BRASS PER ASTM B16, C36000 ALLOY, TEMPER H02  
 BODY, CNUT - STAINLESS STEEL PER ASTM 582, S30300 ALLOY, COND. A  
 INSULATOR - TEFLON PER ASTM D1710, TYPE 1, GRADE 1, CLASS A  
 GASKET - SILICONE RUBBER PER A-A-59588, 50-75 DUROMETER  
 SHRINK SLEEVE - HEAT SHRINKABLE ATUM PER MIL-I-23053/4 (NOT SHOWN)  
 CRIMP SLEEVE - D.H.P. COPPER CDA, ALLOY #122, TEMPER HARD  
 CONTACT & LOCKING RING - BERYLLIUM COPPER PER ASTM B196, C17300 ALLOY, CONDITION HT

- FINISH:**  
 CONTACT - GOLD PLATE PER ASTM B488  
 CRIMP SLEEVE - SULFAMATE NICKEL PER MIL-P-27418  
 CLAMP - NICKEL PLATE PER AMS-QQ-N-290  
 C'NUT & BODY - PASSIVATE PER SAE-AMS-2700

MATL:	UNLESS OTHERWISE SPECIFIED		DFTM. N. N. N	TIMES MICROWAVE SYSTEMS	
	ALL DIMENSIONS ARE IN INCHES MACHINED SURFACES FINISH 63 RMS MAX. REMOVE ALL BURRS .004 MAX. BREAK MACHINE CORNERS .005 MAX. FILLET R. TOLERANCES ON DECIMALS . XX ± .01 . XXX ± .005 ANGLES ± 1° FRACTIONS ± 1/64		DATE 9/4/13		
USED ON: A	DO NOT SCALE DRAWING		CHKD. J. D. B.	TC-240-SM-SS-X CONNECTOR ASSEMBLY SMAM for LMR-240	
			DATE 9/10/13		
SCALE: NONE	DWG. SIZE A	CODE IDENT 68999	APPD. J. D. B.	DATE 9/10/13	1 of 1   SD3190-2898   A

## Low Loss Flexible LMR-240-DB Rated Coax Cable Double Shielded with Black PE Jacket



### LMR-240-DB



## Times Microwave Systems Connector Specification

### Configuration

- Low Loss Flexible Cable
- 2 Shield(s)

### Features

- Easily Routed
- Low Loss Cable
- RF Shielding > 90dB
- Designed for Outdoor Use
- Watertight

### Applications

- Jumper Assemblies
- Short Antenna Feeder Runs
- Wireless Communications

### Description

LMR-240-DB part number from Pasternack is a LMR-240-DB coax cable that is flexible. Pasternack LMR-240-DB flexible coax cable is 50 Ohm and has a PE (F) dielectric. Our LMR-240-DB coax is constructed with a 0.24 jacket made of PE. LMR-240-DB coax has a shield count of 2, a RF shielding of 90 dB and the maximum frequency for this Pasternack cable is 8 GHz. LMR-240-DB coax cable has an attenuation at 1 GHz of 7.66 dB.

Pasternack LMR-240-DB coax cables are part of over 40,000 RF, microwave and millimeter wave components. LMR-240-DB cables and our other RF parts are available for same day shipping worldwide. Custom RF cable assemblies using LMR-240-DB or other coax can be built and shipped same day as well.

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
Impedance		50		Ohms
Velocity of Propagation		84		%
Time Delay		1.21 [3.97]		ns/ft [ns/m]
Shielding Effectiveness	90			dB
Dielectric Withstanding Voltage (DC)			1,500	Vdc
Jacket Spark			5,000	Vrms
Inner Conductor DC Resistance			3.2	Ohms/1000ft
Outer Conductor DC Resistance			3.89	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

## Low Loss Flexible LMR-240-DB Rated Coax Cable Double Shielded with Black PE Jacket



### LMR-240-DB

#### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	50	150	220	450	900	MHz
Attenuation, Typ	1.7	3	3.7	5.3	7.6	dB/100ft
	5.58	9.84	12.14	17.39	24.93	dB/100m
Input Power (CW), Max	1,150	660	540	380	260	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	5.8	GHz
Attenuation, Typ	9.9	10.9	11.5	12.9	20.4	dB/100ft
	32.48	35.76	37.73	42.32	66.93	dB/100m
Input Power (CW), Max	200	180	170	150	100	Watts

#### Electrical Specification Notes:

Values at 25°C, sea level.

Attenuation =  $0.242080 \cdot \sqrt{\text{FMHz}} + 0.000330$

#### Mechanical Specifications

Diameter	0.24 in [6.1 mm]
Weight	0.034 lbs/ft [0.05 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

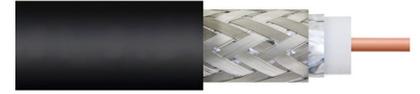
Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strand	0.056 in [1.42 mm]
Conductor Type	Solid	
Dielectric	PE (F)	0.15 in [3.81 mm]
First Shield	Aluminum Tape	0.155 in [3.94 mm]
Second Shield	Tinned Copper Braid	0.178 in [4.52 mm]
Jacket	PE, Black	0.24 in [6.1 mm]

#### Environmental Specifications

##### Temperature

Operating Range	-40 to 85 deg C
Installation Range	-40 to 85 deg C
Storage Range	-70 to 85 deg C

## Low Loss Flexible LMR-240-DB Rated Coax Cable Double Shielded with Black PE Jacket



### LMR-240-DB

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Environmental Specification Notes:  
Designed for indoor and outdoor use.

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

#### Plotted and Other Data

Notes:

Low Loss Flexible LMR-240-DB Rated Coax Cable Double Shielded with Black PE Jacket 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.

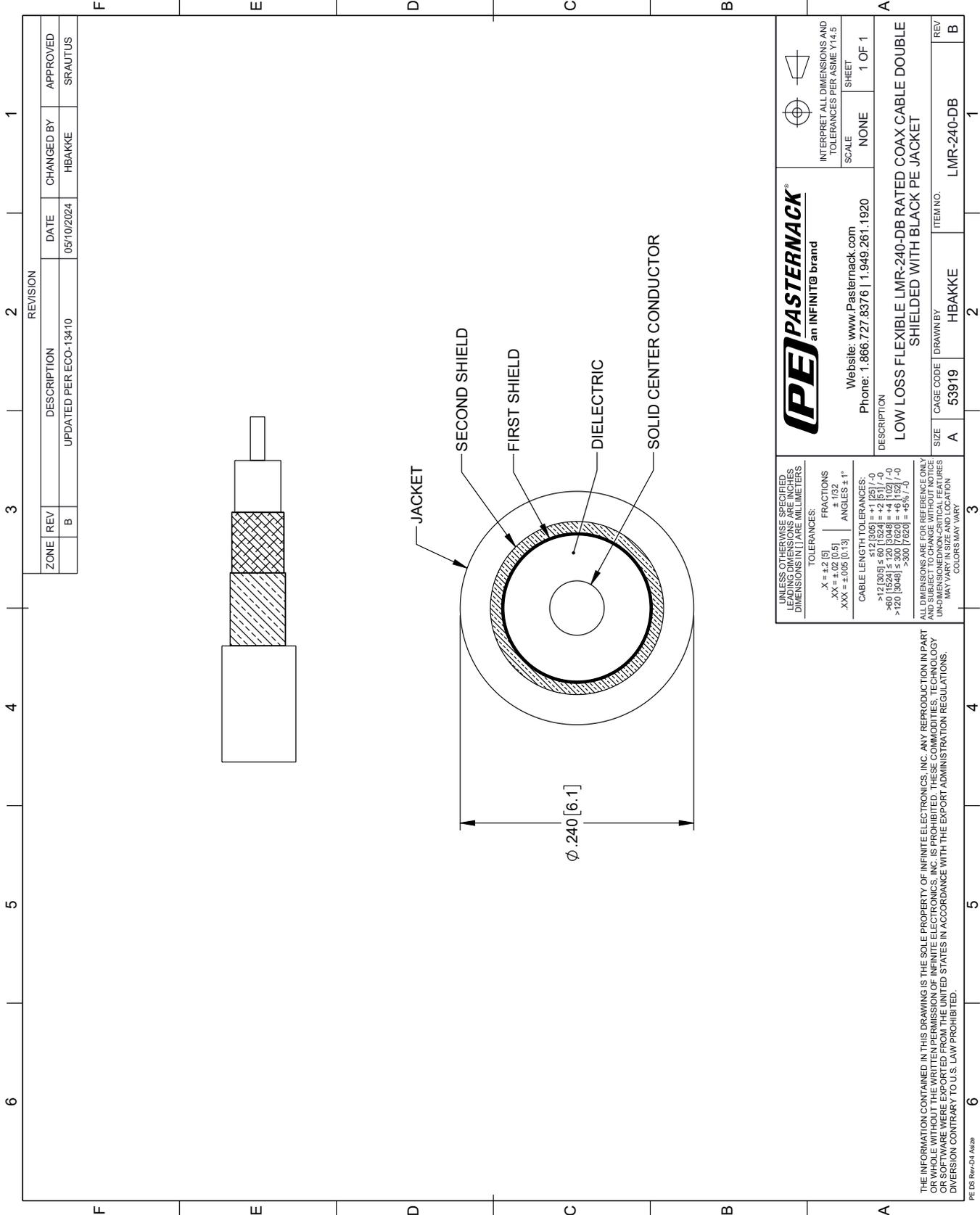
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URL: <https://www.pasternack.com/low-loss-flexible-lmr240db-pe-jacket-double-shielded-black-lmr-240-db-p.aspx>

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# LMR-240-DB CAD Drawing

Low Loss Flexible LMR-240-DB Rated Coax Cable Double Shielded with Black PE Jacket



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	DESCRIPTION		
	B	UPDATED PER ECO-13410	HBAKKE	SRAUTUS

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Website: [www.Pasternack.com](http://www.Pasternack.com)  
Phone: 1.866.727.8376 | 1.949.281.1920

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE  
SHEET: 1 OF 1

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DESCRIPTION: LOW LOSS FLEXIBLE LMR-240-DB RATED COAX CABLE DOUBLE SHIELDED WITH BLACK PE JACKET

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	HBAKKE	LMR-240-DB

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE MILLIMETERS.

TOLERANCES:  
 .X = ±.2 [5]      FRACTIONS ± 1/32  
 .XX = ±.02 [0.5]      ANGLES ± 1°  
 .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:  
 >12 [305] ≤ 60 [1524] = ±.1 [25] / -0  
 >60 [1524] ≤ 120 [3048] = ±.2 [51] / -0  
 >120 [3048] ≤ 300 [7620] = ±.3 [76] / -0  
 >300 [7620] = ±.5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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PE DS Rev-04 Add2