75 Ohm F Male Connector Crimp/Non-Solder Contact Attachment for LMR-240-75, LMR-240-75-DB, LMR-240-75-FR



EZ-240-FM-75-X

Configuration

- F Male Connector
- 75 Ohms
- Straight Body Geometry
- Connector Interface Types: LMR-240-75, LMR-240-75-DB, LMR-240-75-FR

Features

- Max. Operating Frequency 1 GHz
- Good VSWR of 1.3:1
- Gold Plated Beryllium Copper Contact
- 50 µin minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies
- CATV

Description

Times Microwave's EZ-240-FM-75-X type F , F, , Connector is part of our full line of RF components available for same-day shipping. Times Microwave's type F male connector operates up to a maximum frequency of 1 GHz and offers good VSWR of 1.3:1.

Times Microwave's 75 ohm type F male connector EZ-240-FM-75-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		1,000	MHz
VSWR			1.3:1	
Insertion Loss			1	dB
Dielectric Withstanding Voltage (AC)			750	Vrms
Insulation Resistance	5,000			MOhms
Impedance		75		Ohms

Electrical Specification Notes:
Insertion loss is =0.1*SQRT(FGHz)

Mechanical Specifications

Size

Length	0.56 in [14.22 mm]
Width	0.56 in [14.22 mm]
Height	1.7 in [43.18 mm]
Weight	0.016 lbs [7.26 g]
Mating Cycles	500 Cycles
Mating Torque	1.7 in-lbs [[0.19 Nm]]
Cable Retention Force	150 lbs [68.04 kg]

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75 Ohm F Male Connector Crimp/Non-Solder Contact Attachment for LMR-240-75, LMR-240-75-DB, LMR-240-75-FR



EZ-240-FM-75-X

Material Specifications

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

Environmental Specifications

Temperature

Operating Range	-40 to +125 deg C
Shock	MIL-STD-202G, Method 213, Cond I
Vibration	MIL-STD-202G, Method 204, Cond B

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

75 Ohm F Male Connector Crimp/Non-Solder Contact Attachment for LMR-240-75, LMR-240-75-DB, LMR-240-75-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: 75 Ohm F Male Connector Crimp/Non-Solder Contact Attachment for LMR-240-75, LMR-240-75-DB, LMR-240-75-FR EZ-240-FM-75-X

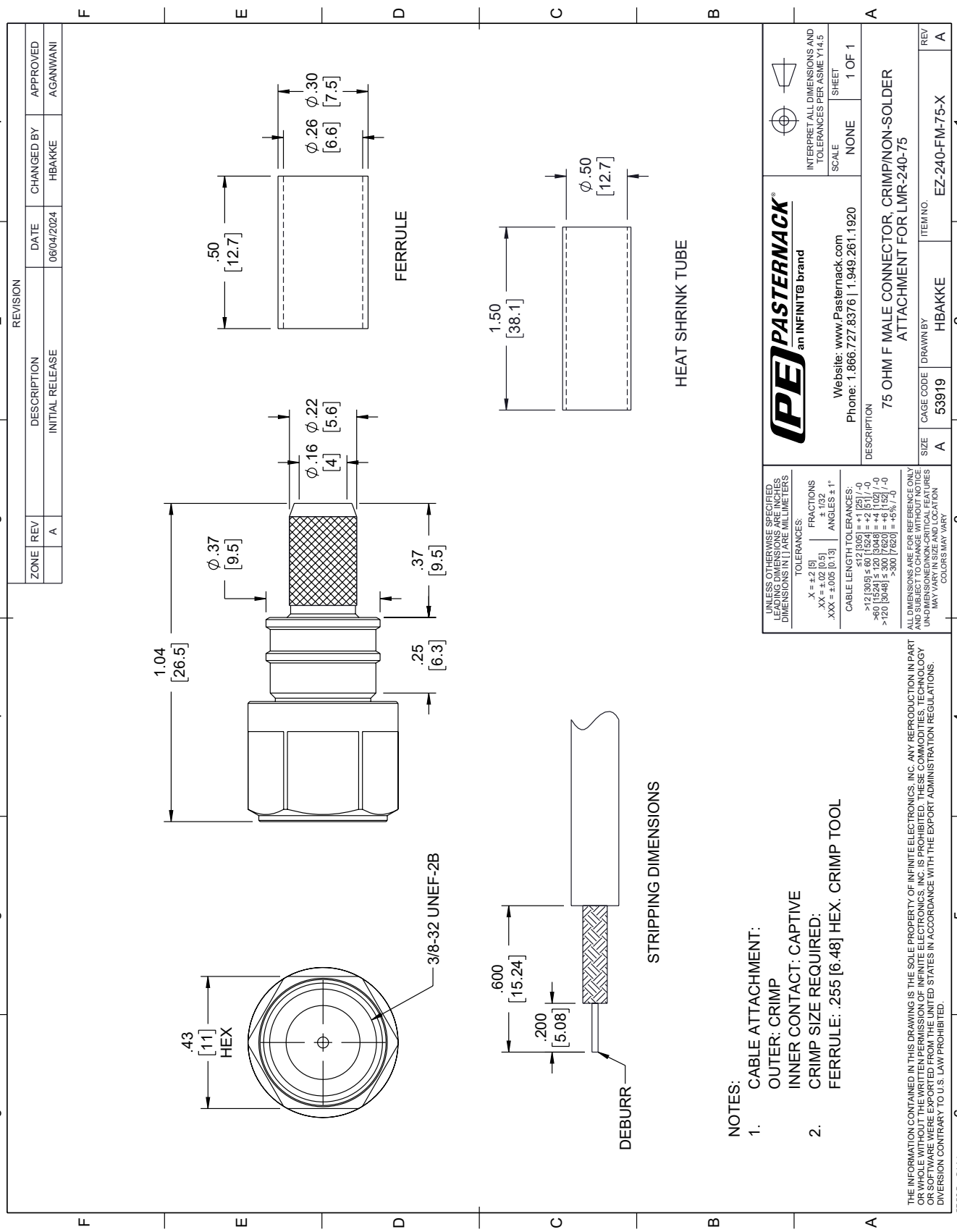
URL: https://www.pasternack.com/f-male-lmr-240-75-connector-ez-240-fm-75-x-p.aspx

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EZ-240-FM-75-X CAD Drawing

75 Ohm F Male Connector Crimp/Non-Solder Contact Attachment for
LMR-240-75, LMR-240-75-DB, LMR-240-75-FR



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75 Ohm F Male Connector Crimp/Non-Solder Contact Attachment for LMR-240-75, LMR-240-75-DB, LMR-240-75-FR



EZ-240-FM-75-X

Configuration

- F Male Connector
- 75 Ohms
- Straight Body Geometry
- Connector Interface Types: LMR-240-75, LMR-240-75-DB, LMR-240-75-FR

Features

- Max. Operating Frequency 1 GHz
- Good VSWR of 1.3:1
- Gold Plated Beryllium Copper Contact
- 50 µin minimum contact plating

Applications

- General Purpose Test
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Description

Times Microwave's EZ-240-FM-75-X type F , F, , Connector is part of our full line of RF components available for same-day shipping. Times Microwave's type F male connector operates up to a maximum frequency of 1 GHz and offers good VSWR of 1.3:1.

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75 Ohm F Male Connector Crimp/Non-Solder Contact Attachment for LMR-240-75, LMR-240-75-DB, LMR-240-75-FR



EZ-240-FM-75-X

Material Specifications

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

Environmental Specifications

Temperature

Operating Range	-40 to +125 deg C
Shock	MIL-STD-202G, Method 213, Cond I
Vibration	MIL-STD-202G, Method 204, Cond B

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

75 Ohm F Male Connector Crimp/Non-Solder Contact Attachment for LMR-240-75, LMR-240-75-DB, LMR-240-75-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.

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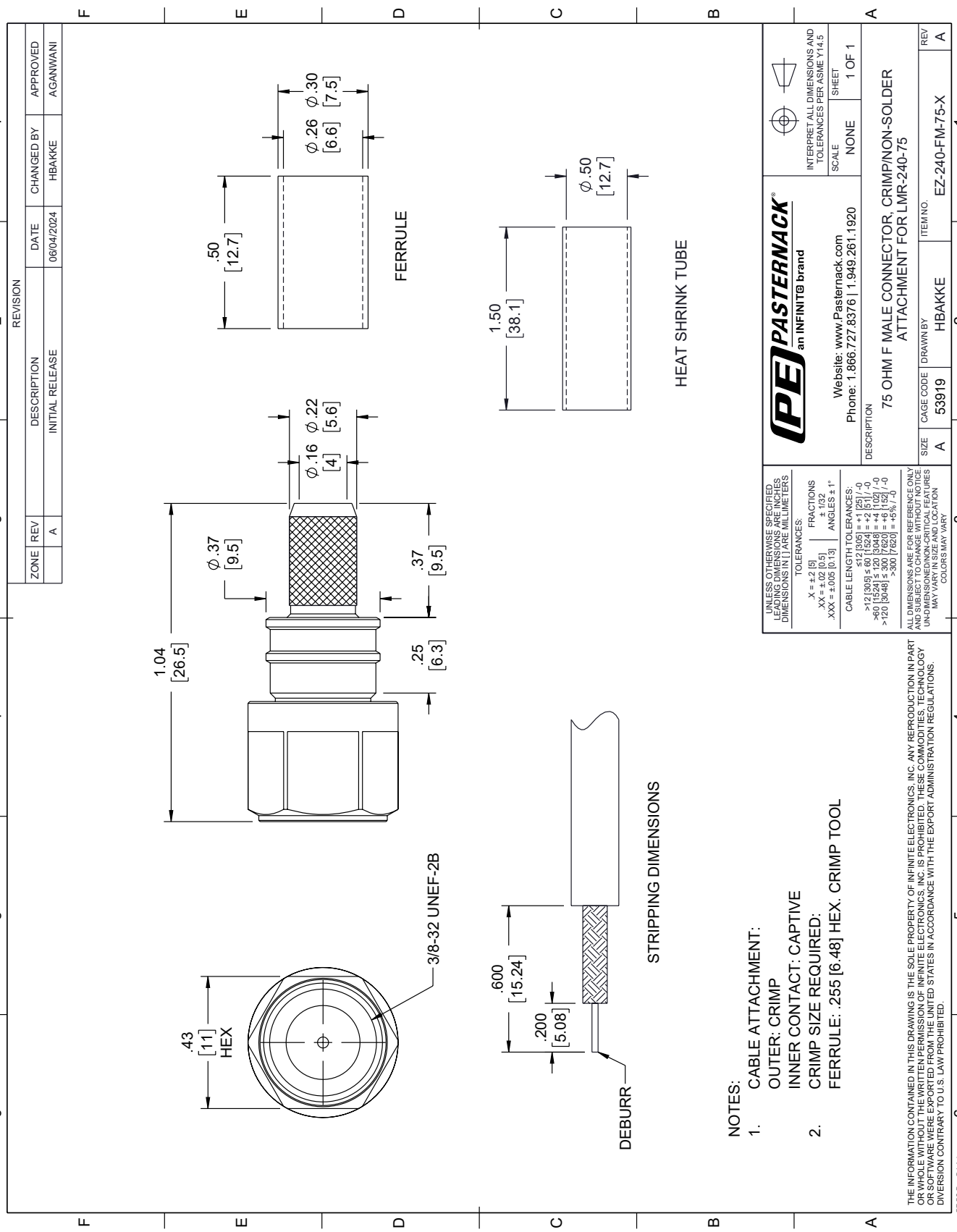
URL: https://www.pasternack.com/f-male-lmr-240-75-connector-ez-240-fm-75-x-p.aspx

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EZ-240-FM-75-X CAD Drawing

75 Ohm F Male Connector Crimp/Non-Solder Contact Attachment for
LMR-240-75, LMR-240-75-DB, LMR-240-75-FR



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75 Ohm Low Loss Flexible LMR-240-75-DB Rated Coax Cable with PE Jacket



LMR-240-75-DB

Configuration

- Low Loss Flexible Cable

Features

- Max Operating Frequency of 2.5 GHz
- Phase Velocity 84% VoP
- Max Operating Temperature +85°C

Applications

- Laboratory Applications
- General Purpose RF Interconnect

Description

The LMR-240-75-DB part number from Pasternack is a low-loss coax cable that is flexible. Pasternack flexible coax RF cable has an impedance of 75 Ohm and a foam polyethylene dielectric. Our LMR-240-75-DB coax cable is constructed with a 0.24-inch jacket made of polyethylene. This RF coaxial cable is ideal for laboratory applications and general purpose RF interconnect applications. This black-colored low-loss coax cable has a nominal capacitance of 16.10 pF/Ft.

This LMR-240-75-DB flexible RF cable has a minimum RF shielding of 90 dB. Our coax cable from Pasternack has a maximum frequency of 2.5 GHz. Additional specifications for this LMR-240-75-DB RF coaxial cable are on our downloadable PDF datasheet above. This low-loss RF cable has a one-time minimum bend radius of 0.75 inches and a repeat minimum bend radius of 2.5 inches.

Our LMR-240-75-DB coax cable can operate at temperatures ranging from -40 to 85 degrees C. Our coax cable has a typical loss/attenuation of 1.3, 1.6, 2.9, 3.5, 5, 7.2, 9.4, 10.3, 10.9, and 12.3 dB/100ft at frequencies of 30 MHz, 50 MHz, 150 MHz, 220 MHz, 450 MHz, 900 MHz, 1.5 GHz, 1.8 GHz, 2 GHz, and 2.5 GHz, respectively. The LMR-240-75-DB flexible RF cable has a copper center conductor.

Pasternack LMR-240-75-DB low-loss 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 LMR-240-75-DB, or other coax can be built and shipped the same business day as well.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		2.5	GHz
Impedance		75		Ohms
Velocity of Propagation		84		%
Shielding Effectiveness	90			dB
Operating Voltage (DC)			1,500	Vdc
Jacket Spark			5,000	Vrms
Inner Conductor DC Resistance			10.1	Ohms/1000ft
Outer Conductor DC Resistance			3.89	Ohms/1000ft
Nominal Capacitance		16.1 [52.82]		pF/ft [pF/m]
Nominal Inductance		0.091 [0.3]		uH/ft [uH/m]

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75 Ohm Low Loss Flexible LMR-240-75-DB Rated Coax Cable with PE Jacket



LMR-240-75-DB

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Input Power (Peak)			5.6	kWatts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	30	50	150	220	450	MHz
Attenuation, Typ	1.3	1.6	2.9	3.5	5	dB/100ft
	4.27	5.25	9.51	11.48	16.4	dB/100m

Description	F6	F7	F8	F9	F10	Units
Frequency	0.9	1.5	1.8	2	2.5	GHz
Attenuation, Typ	7.2	9.4	10.3	10.9	12.3	dB/100ft
	23.62	30.84	33.79	35.76	40.35	dB/100m

Mechanical Specifications

Diameter	0.24 in [6.1 mm}
Weight	0.035 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, Strand	0.032 in [0.81 mm]
Dielectric	Foam PE	0.15 in [3.81 mm]
Outer Conductor	Aluminum Tape	0 in [0 mm]
Jacket	PE	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

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75 Ohm Low Loss Flexible LMR-240-75-DB Rated Coax Cable with PE Jacket



LMR-240-75-DB

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

75 Ohm Low Loss Flexible LMR-240-75-DB Rated Coax Cable with 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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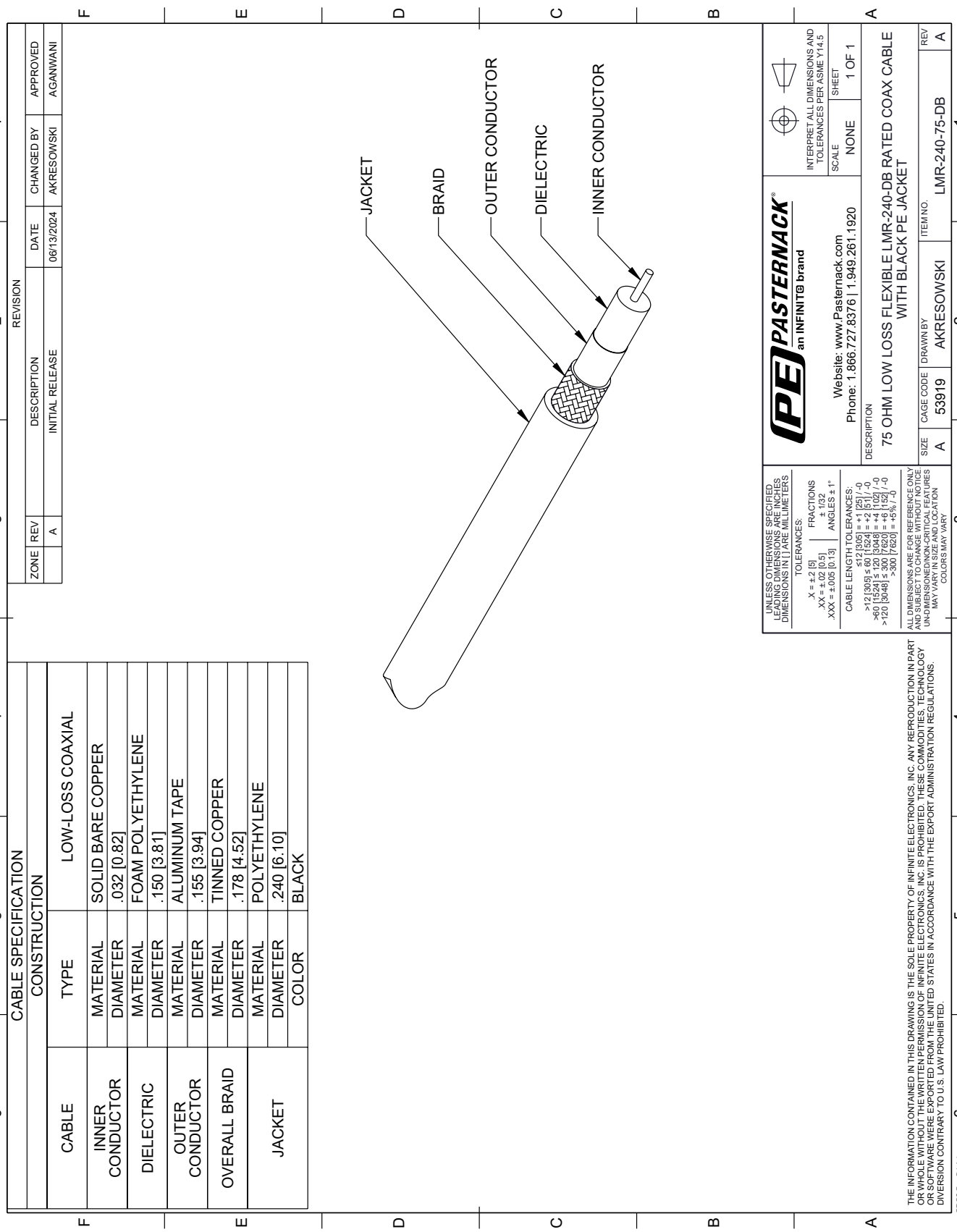
URL: https://www.pasternack.com/75-ohm-low-loss-flexible-lmr24075db-pe-jacket-lmr-240-75-db-p.aspx

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LMR-240-75-DB CAD Drawing

75 Ohm Low Loss Flexible LMR-240-75-DB Rated Coax Cable with PE Jacket



CABLE SPECIFICATION		
CONSTRUCTION		
CABLE	TYPE	LOW-LOSS COAXIAL
INNER CONDUCTOR	MATERIAL	SOLID BARE COPPER
	DIAMETER	.032 [0.82]
DIELECTRIC	MATERIAL	FOAM POLYETHYLENE
	DIAMETER	.150 [3.81]
OUTER CONDUCTOR	MATERIAL	ALUMINUM TAPE
	DIAMETER	.155 [3.94]
OVERALL BRAID	MATERIAL	TINNED COPPER
	DIAMETER	.178 [4.52]
JACKET	MATERIAL	POLYETHYLENE
	DIAMETER	.240 [6.10]
	COLOR	BLACK

REVISION				
ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	06/13/2024	AKRESOWSKI	AGANWANI

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

TOLERANCES:

FRACTIONS	ANGLES
± 1/32	± 1°

.X = ±.2 [5]
.XX = ± .02 [0.5]
.XXX = ±.005 [0.13]

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

ALL DIMENSIONS ARE FOR REFERENCE ONLY
AND SUBJECT TO CHANGE WITHOUT NOTICE
UN-DIMENSIONED/NON-CRITICAL FEATURES
MAY VARY IN SIZE AND LOCATION
COLORS MAY VARY

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

DESCRIPTION: 75 OHM LOW LOSS FLEXIBLE LMR-240-DB RATED COAX CABLE WITH BLACK PE JACKET

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	AKRESOWSKI	LMR-240-75-DB	A

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