PASTERNACK®
THE ENGINEER'S RF SOURCE

RP TNC Male Connector Crimp/Solder Attachment for PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF, 0.400 inch

RF Connectors Technical Data Sheet PE44672

Configuration

- TNC Male Reverse Polarity Connector
- 50 Ohms
- Straight Body Geometry
- PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF, 0.400 inch Interface Type
- Crimp/Solder Attachment

Features

- Max. Operating Frequency 11 GHz
- Gold Plated Phosphor Bronze Contact
- Reverse Polarity

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE44672 RP TNC male connector with crimp/solder attachment for PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF and 0.400 inch is part of our full line of RF components available for same-day shipping. The male reverse polarity configuration uses a male connector body with a female inner contact receptacle. Our TNC male connector operates up to a maximum frequency of 11 GHz.

Our reverse polarity TNC male connector PE44672 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		11	GHz

Mechanical Specifications

Size

Length	1.75 in [44.45 mm]
Width/Dia.	0.59 in [14.99 mm]
Weight	0.058 lbs [26.31 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: RP TNC Male Connector Crimp/Solder Attachment for PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF, 0.400 inch PE44672

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
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Sales@Pasternack.com • Techsupport@Pasternack.com

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RP TNC Male Connector Crimp/Solder Attachment for PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF, 0.400 inch

RF Connectors Technical Data Sheet PE44672

Material Specifications

Description	Material	Plating
Contact	Phosphor Bronze	Gold
Insulation	PTFE	
Body	Brass	Nickel
Coupling Nut	Brass	Nickel

Environmental Specifications

Temperature

Operating Range -65 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

RP TNC Male Connector Crimp/Solder Attachment for PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF, 0.400 inch 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: RP TNC Male Connector Crimp/Solder Attachment for PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF, 0.400 inch PE44672

URL: https://www.pasternack.com/tnc-male-reverse-polarity-pe-c400-0.400-connector-pe44672-p.aspx

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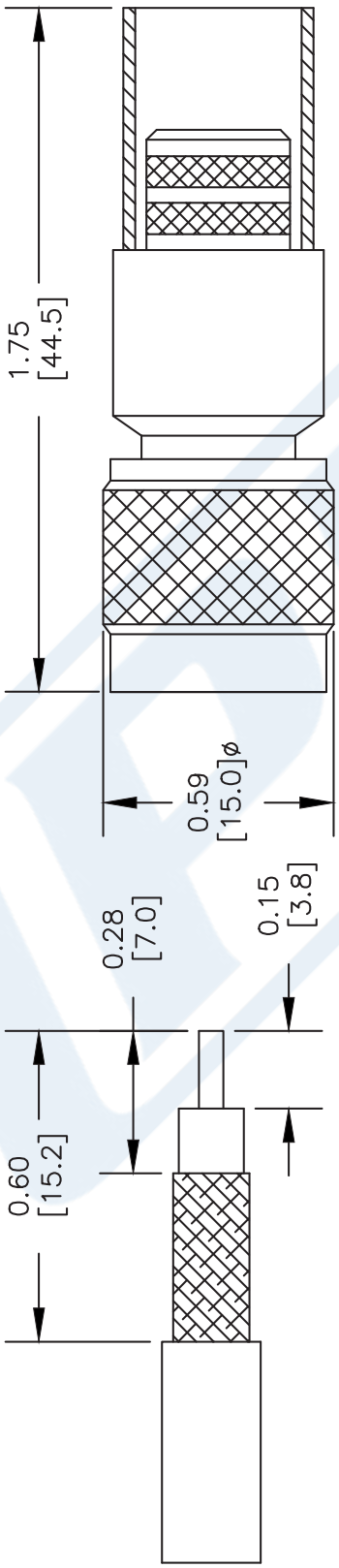
PE44672 CAD Drawing

RP TNC Male Connector Crimp/Solder Attachment for PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF, 0.400 inch



STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: SOLDER
FERRULE: .429" HEX CRIMP TOOL

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

CAD FILE	102009	SCALE N/A	SIZE A	XXXX

DWG TITLE **PE44672**

FSCM NO. 53919

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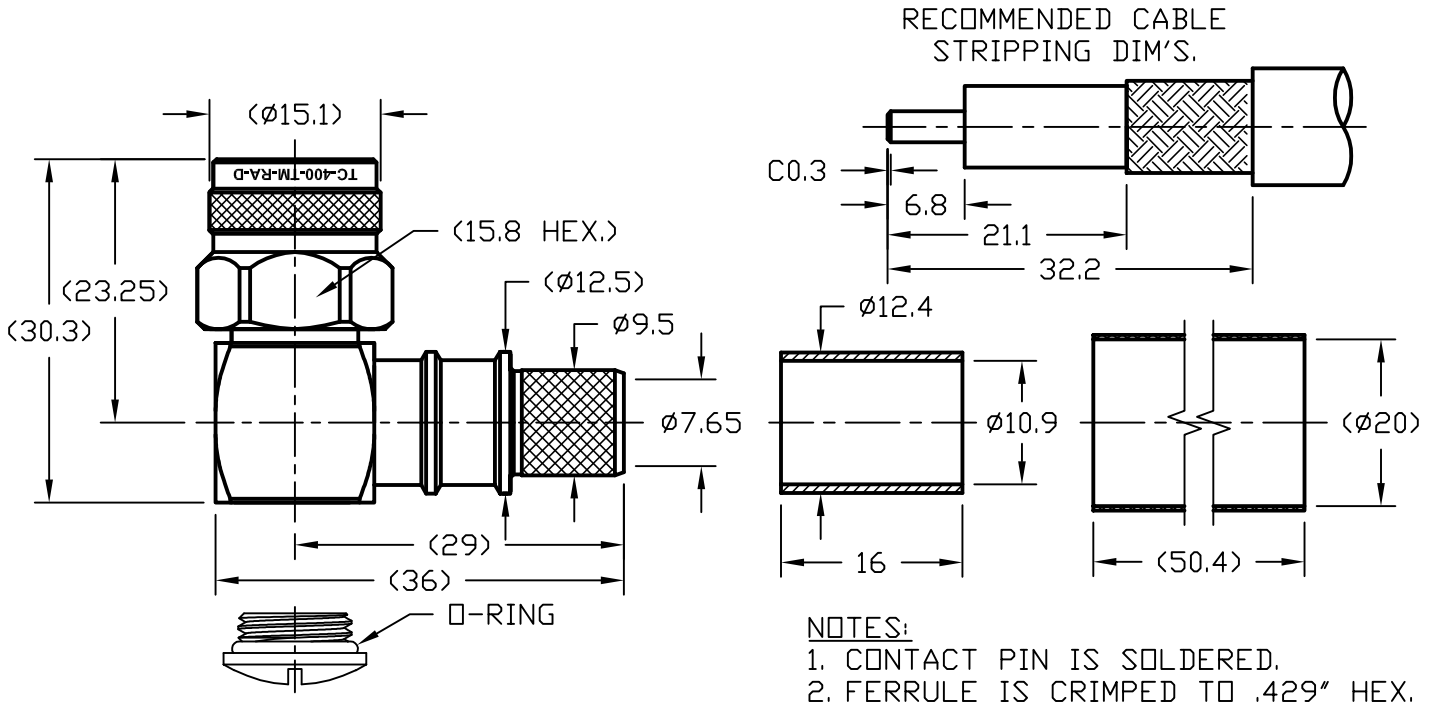
SYM	REVISION DESCRIPTION	DFTM	DATE	APPD	DATE
A	RELEASED FOR PRODUCTION	K.A.M.	6/3/11	J.D.B.	6/3/11
B	CHANGED PER CDC #34607/36250	D.J.H.	9/24/12	J.D.B.	9/25/12



NOTES:
1. CONTACT PIN IS SOLDERED.
2. FERRULE IS CRIMPED TO .429" HEX.

ALL PARTS SATISFIED ROHS REQUIREMENTS

MATERIALS AND PLATING		UNIT: MICRO-INCHES
BODY/SHELL	BRASS C3604	ALBALOY 80 MIN/COPPER
CONTACT PIN	BRASS C3604	GOLD 50 MIN/NICKEL/COPPER
INSULATOR	TEFLON MIL-P-19468	N/A
GASKET	SILICONE	RED
FERRULE	BRASS	ALBALOY 80 MIN/COPPER
SHRINK TUBING	PO	BLACK

ELECTRICAL CHARACTERISTICS	
Impedance	50 Ω
Frequency range	0~11GHz
Voltage rating	500V(rms)
Dielectric withstanding voltage	1000V
Contact resistance	Center contact≤3 mΩ
	Outer contact≤2 m Ω
Insulation resistance	≥5000MΩ
Insertion loss	According to the cable
RF- leakage	N/A
VSWR	≤1.35 MAX@0-6GHz

MECHANICAL CHARACTERISTICS	
Force to engage and disengage	N/A
Center contact retention force	6 lbs Min
Coupling torque	15 in-lbs Min
Coupling nut retention force	60 lbs Min
Durability	≥ 500 cycles

ENVIRONMENTAL CHARACTERISTICS	
Temperature range	-55°C- +125°C
Thermal Shock	MIL-STD-202,Method 107,Cond B
Vibration	MIL-STD-202,Method 204,Cond B
Shock	MIL-STD-202,Method 213,Cond I
Climatic Class	IEC 60068 55/155/56

MATL:

USED ON: 0-4

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN mm
MACHINED SURFACES FINISH 1.6 RMS MAX.
REMOVE ALL BURRS 0.15X45° MAX. BREAK MACHINE CORNERS 0.15X45°D MAX. FILLET R.
TOLERANCES ON DECIMALS
.X ± 0.3 .XX ± 0.2
ANGLES ± 1° FRACTIONS ± N/A

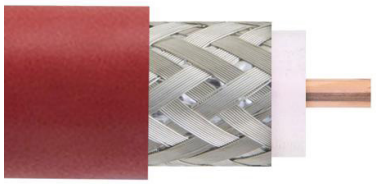
DFTM. K. A. M.
DATE 6/3/11
CHKD. J. D. B.
DATE 6/3/11
APPD. J. D. B.
DATE 6/3/11

TIMES MICROWAVE SYSTEMS

TC-400-TM-RA-D
90° TNC MALE
FOR LMR400 CABLE

SCALE: N/A | DWG. SIZE A | DO NOT SCALE DRAWING | CODE IDENT 68999 | SHT. 1 of 1 | SD3190-2671 | REV. B

Low Loss Flexible LMR-240-LLPX Rated Coax Cable with Fluoropolymer Jacket



LMR-240-LLPX

Configuration

- Low Loss Flexible Cable
- 1 Shield(s)

Features

- Max Operating Frequency of 8 GHz
- Phase Velocity 76% VoP
- Max Operating Temperature +125°C

Applications

- Laboratory Applications
- General Purpose RF Interconnect

Description

The LMR-240-LLPX part number from Pasternack is a low-loss coax cable that is flexible. Pasternack flexible coax RF cable has an impedance of 50 Ohm and a PTFE dielectric. Our LMR-240-LLPX coax cable is constructed with a 0.21-inch jacket made of polyethylene. This RF coaxial cable is ideal for laboratory applications and general purpose RF interconnect applications. This red-colored low-loss coax cable has a nominal capacitance of 26.7 pF/Ft.

This LMR-240-LLPX flexible RF cable has a minimum RF shielding of 90 dB. Our coax cable from Pasternack has a maximum frequency of 8 GHz. Additional specifications for this LMR-240-LLPX 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-LLPX coax cable can operate at temperatures ranging from -40 to 125 degrees C. Our coax cable has a typical loss/attenuation of 1.4, 3.1, 5.4, 7.6, 9.9, 11.5, 12.9, 15.1, 20, and 24.3 dB/100ft at frequencies of 30 MHz, 150 MHz, 450 MHz, 900 MHz, 1.5 GHz, 2 GHz, 2.5 GHz, 3.4 GHz, 5.8 GHz, and 8 GHz, respectively. The LMR-240-LLPX flexible RF cable has a copper center conductor.

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

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
Impedance		50		Ohms
Velocity of Propagation		76		%
Shielding Effectiveness	90			dB
Operating Voltage (DC)			1,500	Vdc
Jacket Spark			5,000	Vrms
Inner Conductor DC Resistance			4	Ohms/1000ft
Outer Conductor DC Resistance			3.9	Ohms/1000ft
Nominal Capacitance		26.7 [87.6]		pF/ft [pF/m]

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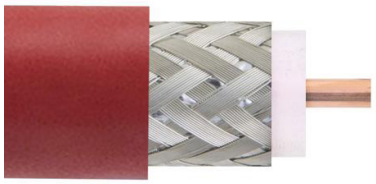
Low Loss Flexible LMR-240-LLPX Rated Coax Cable with Fluoropolymer Jacket



LMR-240-LLPX

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Nominal Inductance		0.067 [0.22]		uH/ft [uH/m]
Input Power (Peak)			5.6	kWatts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.03	0.15	0.45	0.9	1.5	GHz
Attenuation, Typ	1.4	3.1	5.4	7.6	9.9	dB/100ft
	4.59	10.17	17.72	24.93	32.48	dB/100m

Description	F6	F7	F8	F9	F10	Units
Frequency	2	2.5	3.4	5.8	8	GHz
Attenuation, Typ	11.5	12.9	15.1	20	24.3	dB/100ft
	37.73	42.32	49.54	65.62	79.72	dB/100m

Mechanical Specifications

Diameter	0.214 in [5.44 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]
Tensile Strength	60 lbs [27.22 kg]
Flat Plate Crush	85 lbs/in [1.52 kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, Strand	0.051 in [1.3 mm]
Dielectric	PTFE	0.15 in [3.81 mm]
First Shield	Tinned Copper Braid	0.178 in [4.52 mm]
Outer Conductor	Aluminum Tape	0.155 in [3.94 mm]
Jacket	Fluoropolymer	0.214 in [5.44 mm]

Environmental Specifications

Temperature

Operating Range	-40 to +125 deg C
Installation Range	-40 to +125 deg C
Storage Range	-40 to +125 deg C

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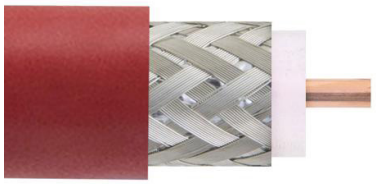
Low Loss Flexible LMR-240-LLPX Rated Coax Cable with Fluoropolymer Jacket



LMR-240-LLPX

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

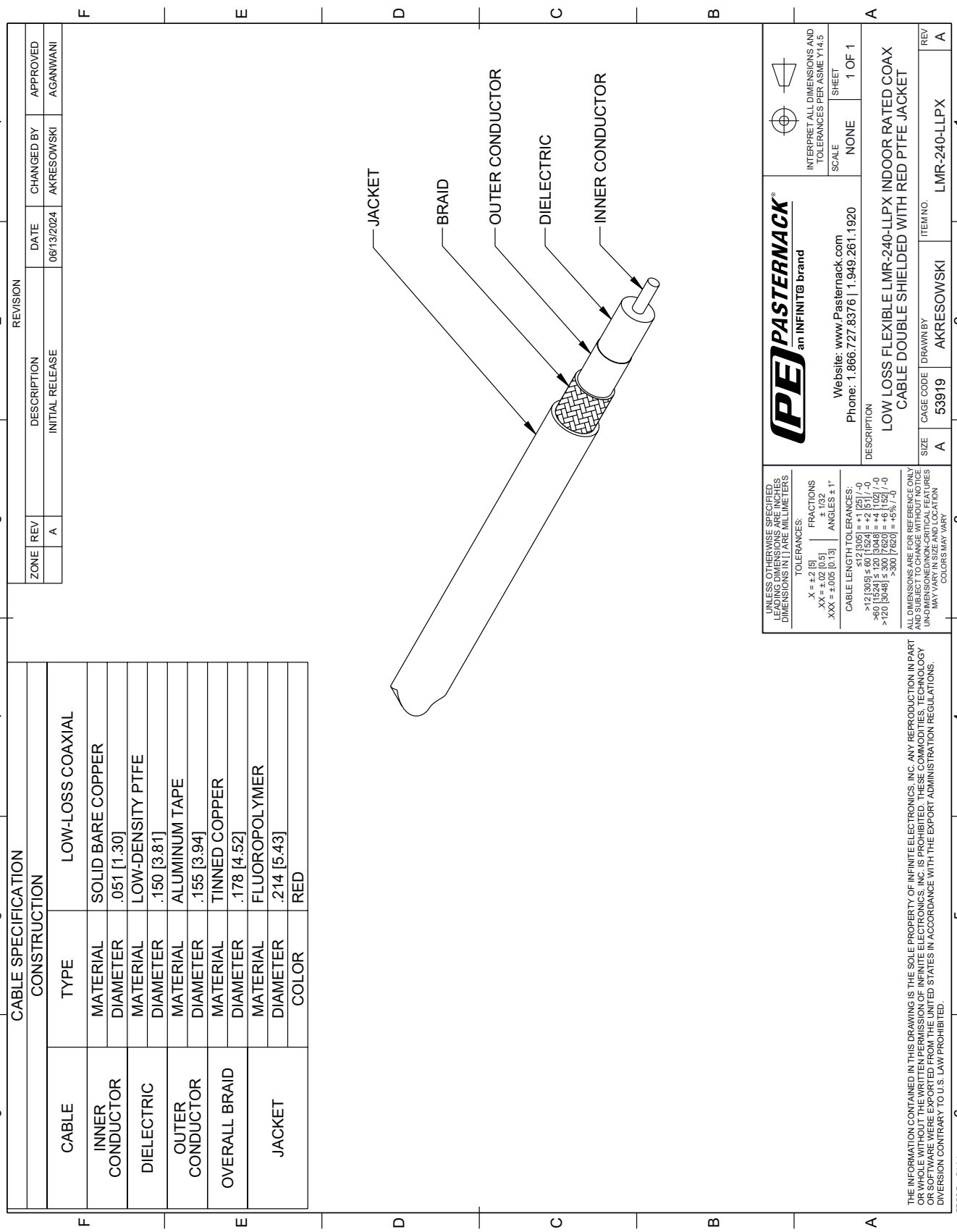
Low Loss Flexible LMR-240-LLPX Rated Coax Cable with Fluoropolymer Jacket from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Low Loss Flexible LMR-240-LLPX Rated Coax Cable with Fluoropolymer Jacket LMR-240-LLPX

URL: https://www.pasternack.com/low-loss-flexible-lmr240llpx-fluoropolymer-jacket-lmr-240-llpx-p.aspx

LMR-240-LLPX CAD Drawing

Low Loss Flexible LMR-240-LLPX Rated Coax Cable with Fluoropolymer Jacket



CABLE SPECIFICATION		
CONSTRUCTION		
CABLE	TYPE	LOW-LOSS COAXIAL
INNER CONDUCTOR	MATERIAL	SOLID BARE COPPER
	DIAMETER	.051 [1.30]
DIELECTRIC	MATERIAL	LOW-DENSITY PTFE
	DIAMETER	.150 [3.81]
OUTER CONDUCTOR	MATERIAL	ALUMINUM TAPE
	DIAMETER	.155 [3.94]
OVERALL BRAID	MATERIAL	TINNED COPPER
	DIAMETER	.178 [4.52]
JACKET	MATERIAL	FLUOROPOLYMER
	DIAMETER	.214 [5.43]
	COLOR	RED

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
LOW LOSS FLEXIBLE LMR-240-LLPX INDOOR RATED COAX
CABLE DOUBLE SHIELDED WITH RED PTFE JACKET

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

PE DS Rev-D4 A4.tte