

## N Male Connector Crimp/Solder Attachment For LMR-600, PE-C600



### TC-600-NMH-X



## Times Microwave Systems Connector Specification

### Configuration

- N Male Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: LMR-600, PE-C600
- 20.57 mm Hex

### Features

- Max. Operating Frequency 6 GHz
- Excellent VSWR of 1.25:1
- Gold Plated Brass Contact
- 50µ in. minimum contact plating

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's TC-600-NMH-X type N , N, Standard, Connector is part of our full line of RF components available for same-day shipping. Our type N male connector operates up to a maximum frequency of 6 GHz and offers excellent VSWR of 1.25:1.

Our type N male connector TC-600-NMH-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			1.25:1	
Dielectric Withstanding Voltage (AC)			2,500	Vrms
Inner Conductor DC Resistance			0.8	mOhms
Outer Conductor DC Resistance			0.4	mOhms
Insulation Resistance	5,000			MOhms
Impedance		50		Ohms

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3					GHz
Insertion Loss, Max	0.1					dB

### Mechanical Specifications

#### Size

Length	1.82 in [46.23 mm]
Width	0.801 in [20.35 mm]
Height	0.801 in [20.35 mm]

## N Male Connector Crimp/Solder Attachment For LMR-600, PE-C600



### TC-600-NMH-X

Weight	0.135 lbs [61.23 g]
Mating Torque	44 in-lbs [[4.97 Nm]]

#### Material Specifications

Description	Material	Plating
Contact	Brass	Gold 50μ in. minimum
Insulation	PTFE	
Body	Brass	Tri-Metal 100μ in. minimum
Coupling Nut	Brass	Tri-Metal 100μ in. minimum

#### Environmental Specifications

<b>Temperature</b>	
Operating Range	-55 to +155 deg C
Shock	MIL-STD 202, Method 213, Condition I
Vibration	MIL-STD 202, Method 204, Condition B

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

#### Plotted and Other Data

Notes:

N Male Connector Crimp/Solder Attachment For LMR-600, PE-C600 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.

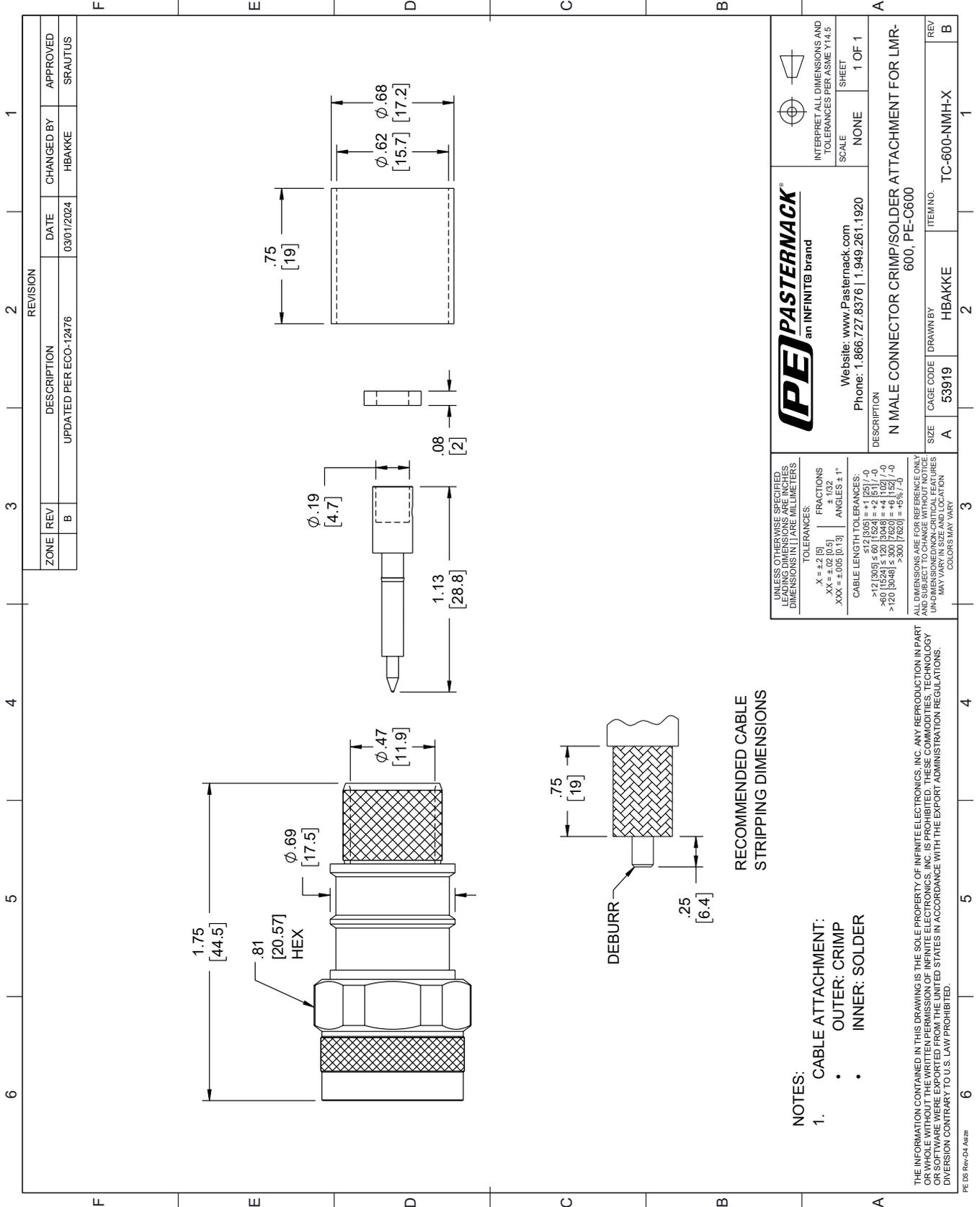
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Connector Crimp/Solder Attachment For LMR-600, PE-C600 TC-600-NMH-X](#)

URL: <https://www.pasternack.com/n-male-crimp-connector-solder-on-pin-hex-knurl-nut-no-braid-trim-for-use-to-8-ghz-for-lmr-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

# TC-600-NMH-X CAD Drawing

N Male Connector Crimp/Solder Attachment For LMR-600, PE-C600



<b>PE PASTERNAK</b> an INFINITI® brand		Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a> Phone: 1.866.727.8376   1.949.261.1920	
INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5		SCALE: NONE SHEET: 1 OF 1	
DESCRIPTION: N MALE CONNECTOR CRIMP/SOLDER ATTACHMENT FOR LMR-600, PE-C600			
SIZE: A	CAGE CODE: 53919	DRAWN BY: HBAKKE	ITEM NO.: TC-600-NMH-X
REV	B	REV	B

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] = +2 [51] / -0  
 >60 [1524] ≤ 120 [3048] = +4 [102] / -0  
 >120 [3048] ≤ 300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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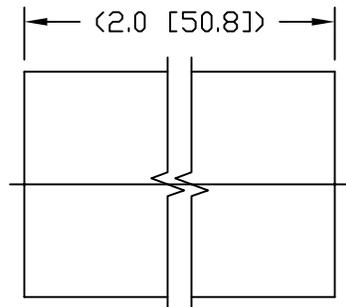
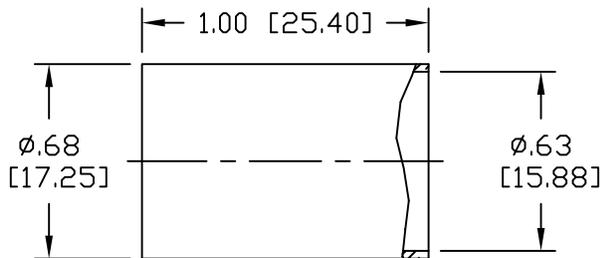
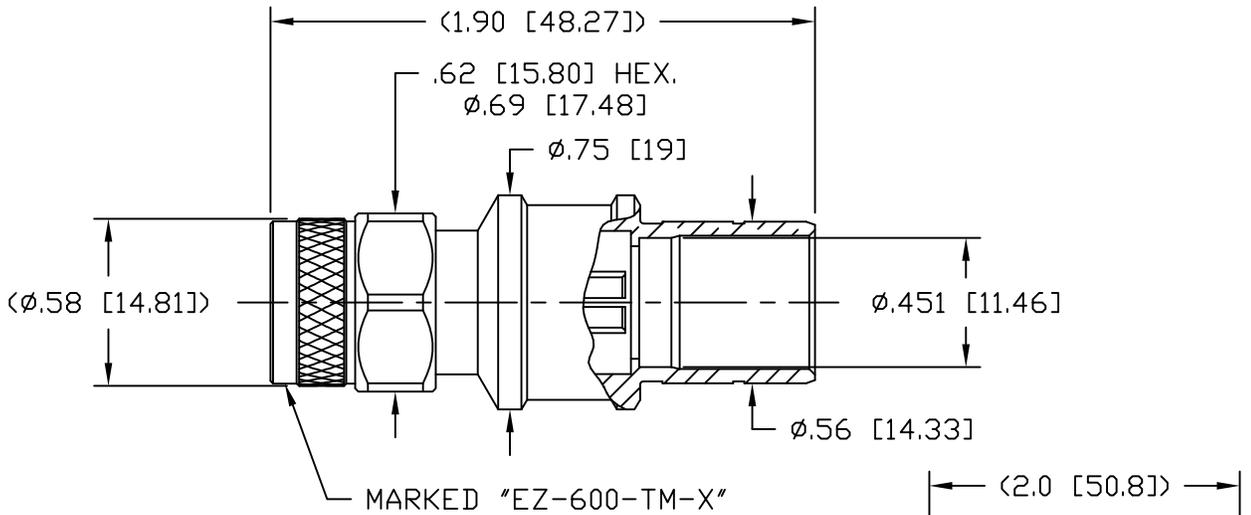
PE DS Rev-04 Add

RECOMMENDED CABLE STRIPPING DIMENSIONS

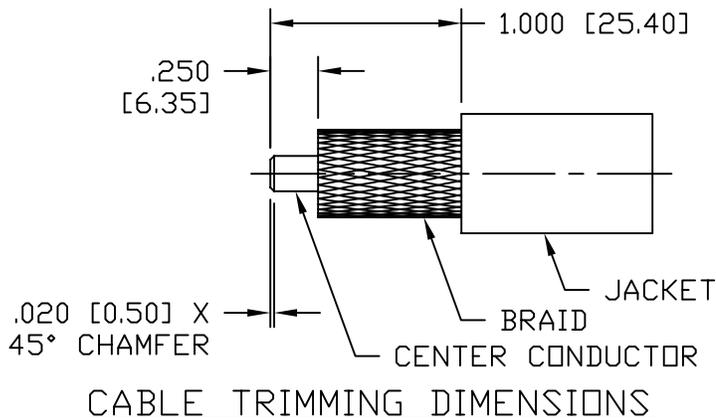
- NOTES:
- CABLE ATTACHMENT:
    - OUTER: CRIMP
    - INNER: SOLDER

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SYM	REVISION DESCRIPTION	DFTM	DATE	APPD	DATE
A	RELEASED FOR PRODUCTION	K.A.M.	2/24/10	J.D.B.	3/11/10
B	CHANGED PER CDC #34322	D.J.H.	10/12/11	J.D.B.	10/27/11



HEAT SHRINK TUBING



CABLE TRIMMING DIMENSIONS

NOTES:

- MATERIALS AND FINISHES:**  
 BODY: BRASS, ALBALDY PLATING  
 COUPLING NUT: BRASS, ALBALDY PLATING  
 CENTER CONTACT: BERYLLIUM COPPER, GOLD PLATE  
 INSULATOR: PTFE, NATURAL  
 FERRULE: COPPER, ALBALDY PLATING
- ELECTRICAL:**  
 IMPEDANCE: 50 OHMS NOMINAL  
 FREQUENCY: DC-6 GHz  
 VSWR: 1.2 DC-6 GHz  
 DIELECTRIC WITHSTANDING VOLTAGE: 1,500 VOLTS RMS
- MECHANICAL:**  
 DURABILITY: 500 CYCLES MIN.  
 TEMPERATURE RANGE: -65°C TO +165°C
- CABLING INSTRUCTIONS:**  
 A. SLIDE FERRULE OVER CABLE JACKET  
 B. TRIM CABLE TO DIMENSIONS SHOWN. MAKE SURE CUTS ARE SHARP AND SQUARE. DO NOT NICK BRAID OR CENTER CONDUCTOR.  
 C. FLAIR BRAID SLIGHTLY AND INSERT CABLE INTO BODY UNTIL BOTTOMED. (CONTACT SUPPLIED ASSEMBLED.) SLIDE THE FERRULE UP THE CABLE AND OVER THE BRAID UNTIL BOTTOMED ON BODY. CRIMP FERRULE USING A .612 HEX.

MATL:	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES MACHINED SURFACES FINISH 32 RMS MAX. REMOVE ALL BURRS .005 MAX. BREAK MACHINE CORNERS .005 MAX. FILLET R. TOLERANCES ON DECIMALS .XX ± .01 .XXX ± .005 ANGLES ± 1° FRACTIONS ± 1/64	DFTM: K. A. M.	TIMES MICROWAVE SYSTEMS
		DATE: 2/24/10	
USED ON: A	DO NOT SCALE DRAWING	CHKD: J. D. B.	<b>EZ-600-TM-X</b> PLUG, TNC, EZ FOR LMR-600
		DATE: 3/11/10	
SCALE: ~	DWG. SIZE: A	APPD: J. D. B.	SHEET 1 of 1
	CODE IDENT: 68999	DATE: 3/11/10	

## Low Loss Flexible LMR-600-UF Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket Ultra Flex



### LMR-600-UF



## Times Microwave Systems Connector Specification

### Configuration

- Low Loss, Outdoor Flexible Cable
- 2 Shield(s)

### Features

- Ultra Flexible Coax with Stranded Center Conductor
- Max Operating Frequency of 8 GHz
- Phase Velocity 87% VoP
- Max Operating Temperature +85°C
- TPE Jacket
- Min Install Bend Radius of 1.5 inches

### Applications

- RF Test Systems
- Antenna Installs
- Laboratory Applications
- General Purpose RF Interconnect
- Jumper Assemblies

### Description

LMR-600-UF Ultra Flex version of the 600 series Low Loss Coax from Times Microwave is part of the large product offering by Pasternack of radio frequency coaxial cable types specifically stocked to be ready for same-day shipment. Pasternack LMR-600-UF coax cable is manufactured in an ultra flexible design and has a 50 Ohm impedance. This low loss and ultra flexible 50 Ohm coax cable LMR-600-UF is constructed with a 0.590 inch diameter and Black TPE jacket.

LMR-600-UF flexible 50 Ohm coax cable with TPE jacket is rated for a 8 GHz maximum operating frequency. This 50 Ohm 0.590 inch diameter and low loss ultra flexible coax cable is built with an aluminum double shield count and RF shielding of 90 dB. Times Microwave LMR-600-UF TPE coax is constructed with Foam PE dielectric and a maximum operating temperature of 85 degrees C. Pasternack's offering of LMR-600-UF coax cable provides specs for this wire on its RF coax cable LMR-600-UF datasheet.

LMR-600-UF cable is part of more than one million RF, microwave parts in stock at Pasternack. This Times Microwave low loss ultra flexible LMR-600-UF coax cable is ready to buy and can be shipped worldwide. Pasternack also maintains a wide selection of other radio frequency coaxial cable types that ship same-day from our warehouse as with the rest of our other RF/microwave components.

\* LMR™ is a trademark of Times Microwave Systems.

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
Impedance		50		Ohms
Velocity of Propagation		87		%
Time Delay		1.17 [3.84]		ns/ft [ns/m]
Shielding Effectiveness	90			dB
Dielectric Withstanding Voltage (DC)			4,000	Vdc
Jacket Spark			8,000	Vrms
Inner Conductor DC Resistance			0.43	Ohms/1000ft

Low Loss Flexible LMR-600-UF Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket Ultra Flex



**LMR-600-UF**

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Outer Conductor DC Resistance			1.2	Ohms/1000ft
Nominal Capacitance		23.4 [76.77]		pF/ft [pF/m]
Nominal Inductance		0.058 [0.19]		uH/ft [uH/m]
Input Power (Peak)			40	kWatts

**Performance by Frequency Band**

Description	F1	F2	F3	F4	F5	Units
Frequency	50	150	220	450	900	MHz
Attenuation, Typ	0.7	1.2	1.4	2.1	3	dB/100ft
	2.3	3.94	4.59	6.89	9.84	dB/100m
Input Power (CW), Max	3,530	2,000	1,640	1,120	770	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	8	GHz
Attenuation, Typ	4	4.4	4.7	5.3	8.7	dB/100ft
	13.12	14.44	15.42	17.39	28.54	dB/100m
Input Power (CW), Max	580	520	490	430	260	Watts

**Mechanical Specifications**

Diameter	0.59 in [14.99 mm]
Weight	0.176 lbs/ft [0.26 kg/m]
Min. Bend Radius (Installation)	1.5 in [38.1 mm]
Min. Bend Radius (Repeated)	6 in [152.4 mm]
Bending Moment	1.75 lbs-ft [2.37 N-m]
Tensile Strength	350 lbs [158.76 kg]
Flat Plate Crush	40 lbs/in [0.71 kg/mm]

**Construction Specifications**

Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strand	0.176 in [4.47 mm]
Conductor Type	Stranded	
Dielectric	Foam PE	0.455 in [11.56 mm]
First Shield	Aluminum Tape	
Second Shield	Tinned Copper	
Jacket	TPE, Black	0.59 in [14.99 mm]

## Low Loss Flexible LMR-600-UF Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket Ultra Flex



### LMR-600-UF

#### Environmental Specifications

##### Temperature

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

Environmental Specification Notes:  
Indoor/Outdoor

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

#### Plotted and Other Data

Notes:

Low Loss Flexible LMR-600-UF Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket Ultra Flex 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-600-UF Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket Ultra Flex LMR-600-UF](#)

URL: <https://www.pasternack.com/low-loss-flexible-lmr-600-uf-tpe-jacket-aluminum-tape-over-tinned-copper-outer-conductor-double-shielded-lmr-600-uf-p.aspx>

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# LMR-600-UF CAD Drawing

Low Loss Flexible LMR-600-UF Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket Ultra Flex

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		
A	INITIAL RELEASE	06-04-2021	SELLIS

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X = ±.2 [5.08]	FRACTIONS	± 1/32														
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