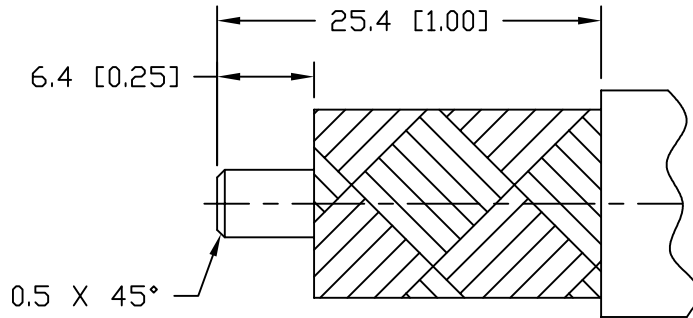
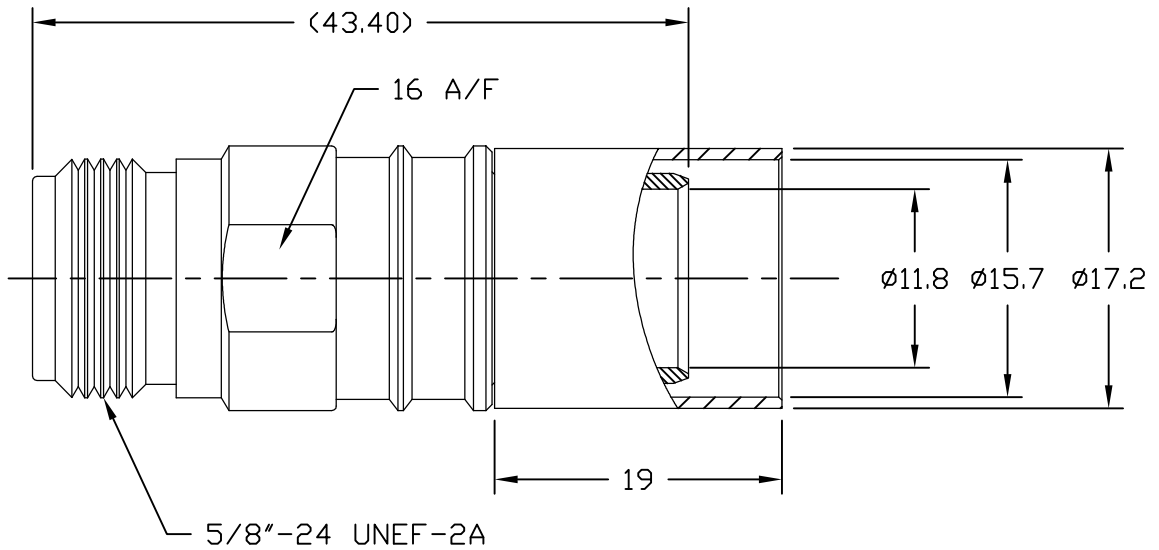


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SYM	REVISION DESCRIPTION	DFTM	DATE	APPD	DATE
A	RELEASED FOR PRODUCTION	D. J. H.	12/12/12	J. D. B.	12/12/12



CABLE PREP.  
USE CST-600  
(3192-052)  
.610" HEX.



Reference Standard IEC60169-16

I. Electric Performance

Nominal Impedance( $\Omega$ ):	50
Frequency Range:	DC-6GHz
VSWR:	$\leq 1.30$
Insert Loss(dB):	$\leq 0.1(0-3GHz)$
Insulation resistance(M $\Omega$ ):	$\geq 5000$
Proof Voltage(V)	2500
Conductor resistance(m $\Omega$ )	outer conductor <math>< 0.4</math> inner conductor <math>< 0.8</math>

II. Mechanical Performance

Retention	$\geq 0.56N$
Mechanical Wear(hypo-)	500
Tensile force(cable-connector)	500N
Torsion(cable-connector)	5N.m

III. Material and plating

Component	Material	Plating
Inner conductor	Spring Bronze	Au 1.27 $\mu$ m over Chemistry Nickel 3 $\mu$ m
Outer conductor	Brass	Copper-tin-zinc 2 $\mu$ m
Tube	Copper	Copper-tin-zinc 2 $\mu$ m
Insulator	PTFE	

IV. Environment

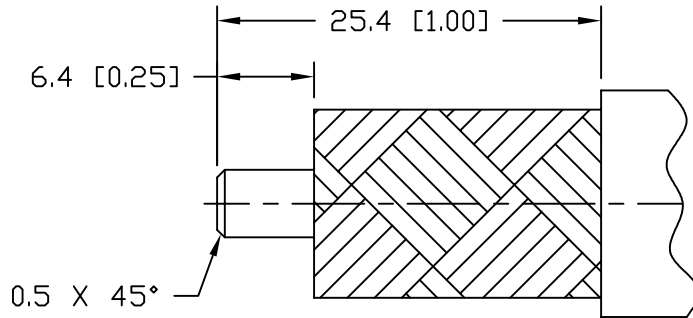
Temp. range	-55 $^{\circ}C$ ~+155 $^{\circ}C$
Weather standard	IEC 60068 55 / 155/ 56
Thermal shock	US MIL-STD 202, Meth.107, Cond.B
Vibration	US MIL-STD 202, Meth.204, Cond.B
Shock	US MIL-STD 202, Meth.213, Cond.I
ROHS Compliant	

V. Assembly: inner conductor installed and outer conductor crimped

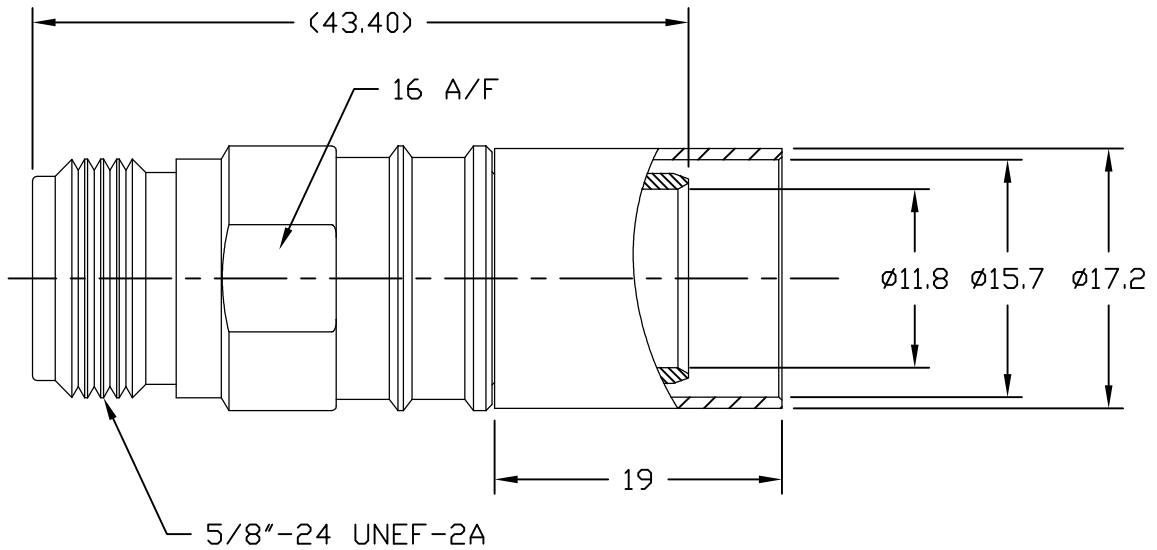
MATERIAL:	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN mm MACHINED SURFACES FINISH N/A RMS MAX. REMOVE ALL BURRS N/A MAX. BREAK MACHINE CORNERS N/A MAX. FILLET R. TOLERANCES ON DECIMALS .XX $\pm$ N/A .XXX $\pm$ N/A ANGLES $\pm 1^{\circ}$ FRACTIONS $\pm$ N/A	DFTM. D. J. H.	TIMES MICROWAVE SYSTEMS
		DATE 12/12/12	
USED ON: O-O		CHKD. J. D. B.	<b>EZ-600-NF-X</b> N FEMALE FOR LMR-600 CABLE EZ/CRIMP/NO BRAID TRIM
		DATE 12/12/12	
SCALE: N/A	DWG. SIZE A	APPD. J. D. B.	SHEET 1 of 1   SD3190-2817   REV A
		DATE 12/12/12	
DO NOT SCALE DRAWING	CODE IDENT 68999		

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SYM	REVISION DESCRIPTION	DFTM	DATE	APPD	DATE
A	RELEASED FOR PRODUCTION	D. J. H.	12/12/12	J. D. B.	12/12/12



CABLE PREP.  
USE CST-600  
(3192-052)  
.610" HEX.



Reference Standard IEC60169-16

**I. Electric Performance**

Nominal Impedance( $\Omega$ ): 50  
 Frequency Range: DC-6GHz  
 VSWR:  $\leq 1.30$   
 Insert Loss(dB):  $\leq 0.1(0-3\text{GHz})$   
 Insulation resistance(M $\Omega$ ):  $\geq 5000$   
 Proof Voltage(V): 2500  
 Conductor resistance(m $\Omega$ ): outer conductor <0.4  
 inner conductor <0.8

**II. Mechanical Performance**

Retention:  $\geq 0.56\text{N}$   
 Mechanical Wear(hypo-): 500  
 Tensile force(cable-connector): 500N  
 Torsion(cable-connector): 5N.m

**III. Material and plating**

Component	Material	Plating
Inner conductor	Spring Bronze	Au 1.27 $\mu\text{m}$ over Chemistry Nickel 3 $\mu\text{m}$
Outer conductor	Brass	Copper-tin-zinc 2 $\mu\text{m}$
Tube	Copper	Copper-tin-zinc 2 $\mu\text{m}$
Insulator	PTFE	

**IV. Environment**

Temp. range: -55 $^{\circ}\text{C}$ ~+155 $^{\circ}\text{C}$   
 Weather standard: IEC 60068 55 / 155/ 56  
 Thermal shock: US MIL-STD 202, Meth.107, Cond.B  
 Vibration: US MIL-STD 202, Meth.204, Cond.B  
 Shock: US MIL-STD 202, Meth.213, Cond.I

**V. Assembly: inner conductor installed and outer conductor crimped**

MATERIAL:	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN mm MACHINED SURFACES FINISH N/A RMS MAX. REMOVE ALL BURRS N/A MAX. BREAK MACHINE CORNERS N/A MAX. FILLET R. TOLERANCES ON DECIMALS . XX $\pm$ N/A . XXX $\pm$ N/A ANGLES $\pm 1^{\circ}$ FRACTIONS $\pm$ N/A	DFTM: D. J. H.	TIMES MICROWAVE SYSTEMS
		DATE: 12/12/12	
USED ON: O-O		CHKD: J. D. B.	<b>EZ-600-NF-X</b> N FEMALE FOR LMR-600 CABLE EZ/CRIMP/NO BRAID TRIM
		DATE: 12/12/12	
SCALE: N/A	DWG. SIZE: A	APPD: J. D. B.	SHEET: 1 of 1
		DATE: 12/12/12	
DO NOT SCALE DRAWING	CODE IDENT: 68999	DATE: 12/12/12	REV: A



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

## RF Cables Technical Data Sheet



LMR-600-UF

### Times Microwave Systems Coax Cable Specification

#### Configuration

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

#### Features

- Ultra Flexible Coax with Stranded Center Conductor
- Max Operating Frequency of 5.8 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 5.8 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		5.8	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

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](#)



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

### RF Cables Technical Data Sheet



LMR-600-UF

Jacket Spark	8,000	Vrms
Inner Conductor DC Resistance	0.43	Ohms/1000ft
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	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	0.165 lbs/ft [0.25 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]

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](#)



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

RF Cables  
Technical Data Sheet



LMR-600-UF

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]

**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.

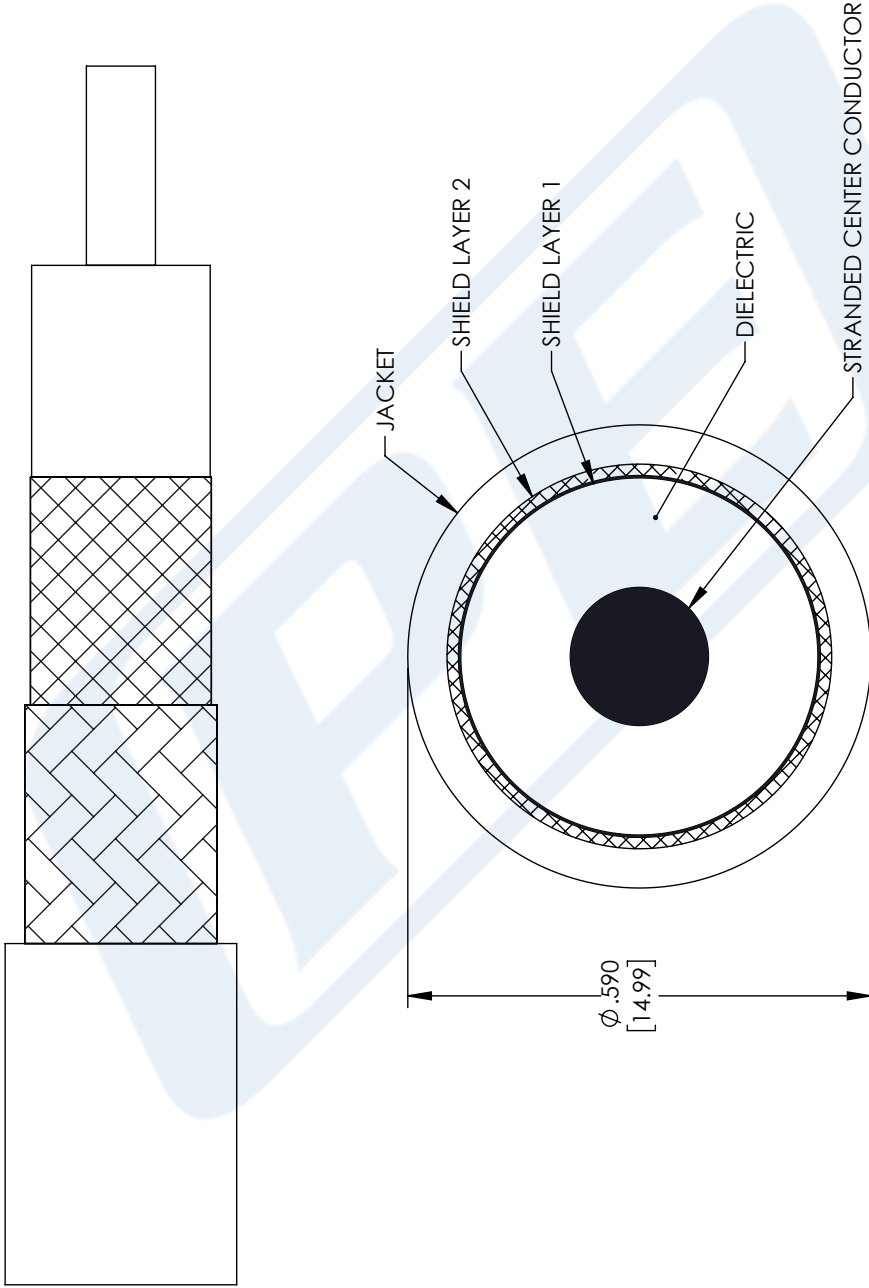
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URL: <https://www.pasternack.com/low-loss-flexible-lmr-600-uf-tpe-jacket-aluminum-tape-over-tinned-copper-outer-conductor-double-shielded-lmr-600-uf-p.aspx>

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.

**TIMES** MICROWAVE SYSTEMS **LMR-600-UF CAD Drawing**  
 Low Loss Flexible LMR-600-UF Outdoor Rated Coax Cable  
 Double Shielded with Black TPE Jacket Ultra Flex

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



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

TOLERANCES:  
 .X = ±.2 [ .008]    FRACTIONS ± 1/32  
 .XX = ±.02 [ .51]    ANGLES ± 1°  
 .XXX = ±.005 [ .13]

CABLE LENGTH (L), TOLERANCES:  
 L ≤ 12 [305] = +1 [25] / -0  
 12 [305] < L ≤ 60 [1524] = +2 [51] / -0  
 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0  
 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0  
 300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN  
 ARE FOR REFERENCE ONLY.

**PE PASTERNAK**  
 an INFINITI brand

Pasternack Enterprises, Inc.  
 P. O. Box 16759, Irvine, CA 92623.  
 Phone: 1.949.261.1920 | 1.866.727.8376  
 Fax: 1.949.261.7451  
 Website: www.pasternack.com  
 E-mail: sales@pasternack.com

SIZE [CAGE CODE] DRAWN BY ITEM NO.  
 A 53919 MVEERAPPAN LMR-600-UF

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

REV A

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