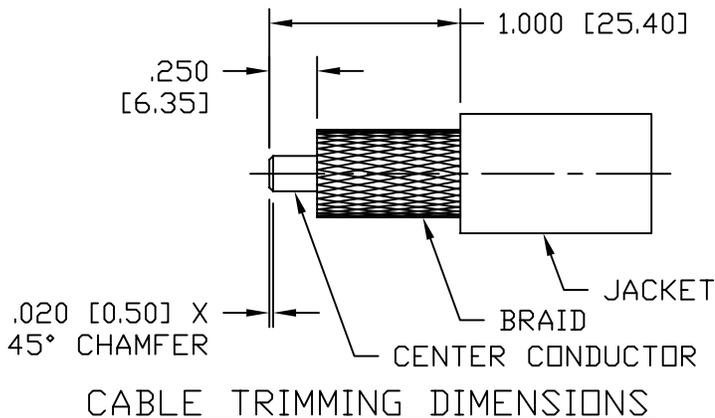
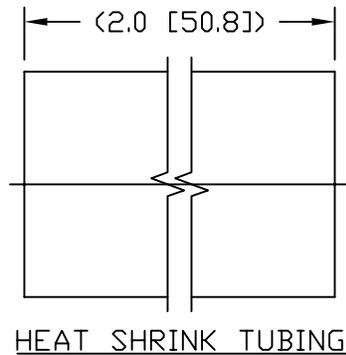
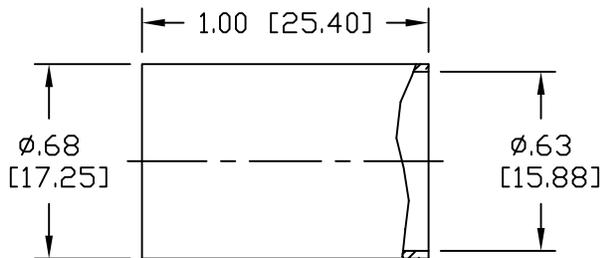
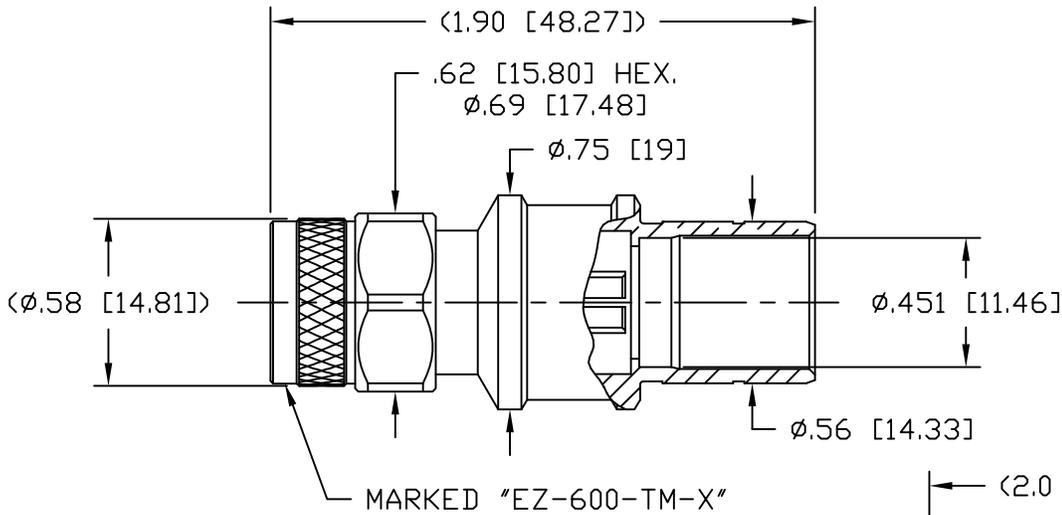


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SYM	REVISION DESCRIPTION	DFTM	DATE	APPD	DATE
A	RELEASED FOR PRODUCTION	K.A.M.	2/24/10	J.D.B.	3/11/10
B	CHANGED PER CDC #34322	D.J.H.	10/12/11	J.D.B.	10/27/11



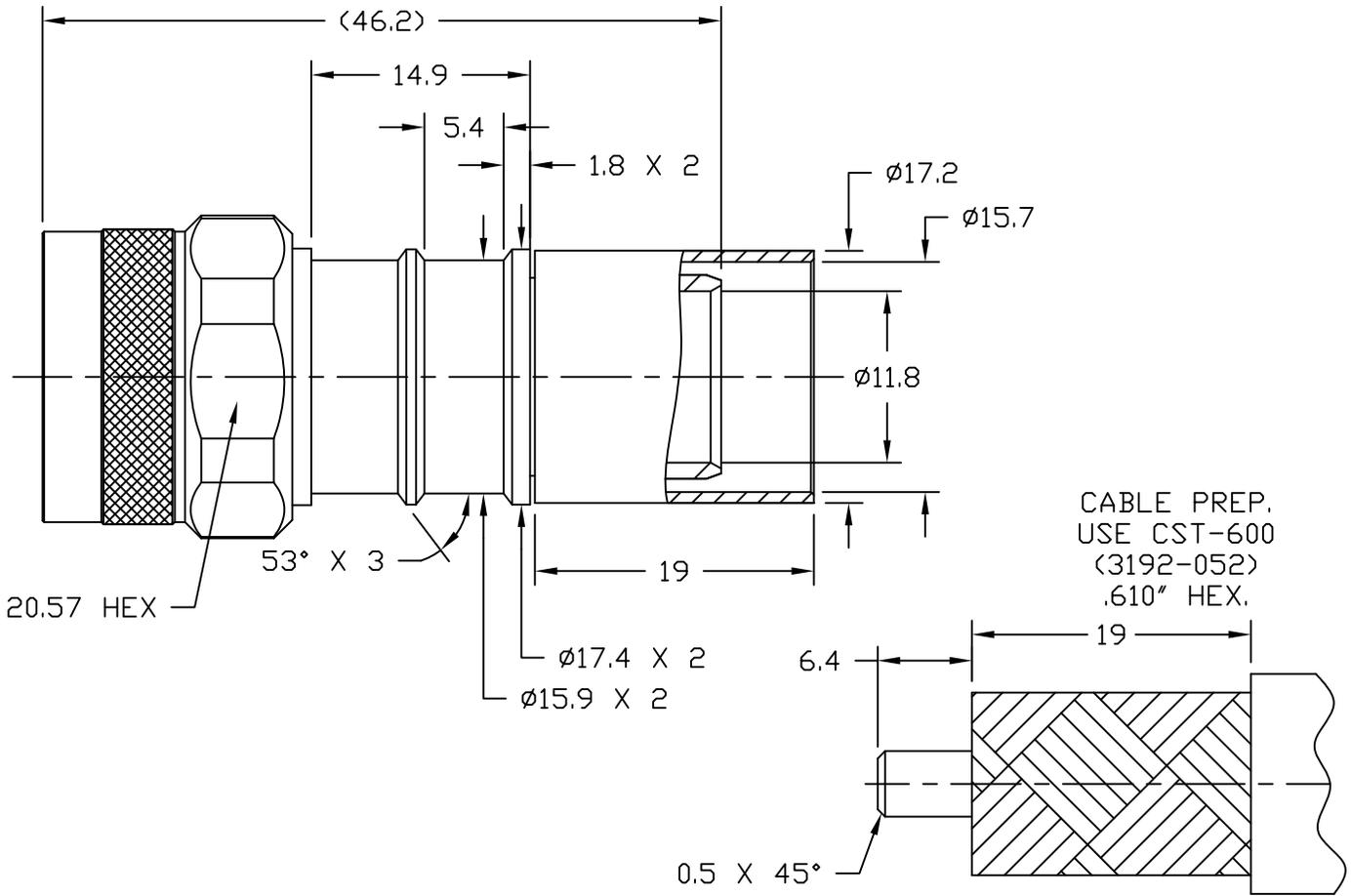
**NOTES:**

- 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	

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SYM	REVISION DESCRIPTION	DFTM	DATE	APPD	DATE
A	RELEASED FOR PRODUCTION	D. J. H.	8/9/11	J. D. B.	8/16/11



Reference standard	IEC60169-16	III. Material and plating:	
I. Electric Performance		<u>Component</u>	<u>Material</u>
Impedance( $\Omega$ ):	50	inner conductor	Brass
Frequency Range:	DC-6GHz	outer conductor	Brass
VSWR:	$\leq 1.25$	tube	Copper
Insert Loss: (dB)	$\leq 0.1$ (DC-3GHz)	nut	Brass
Insulation resistance ( $M\Omega$ )	$\geq 5000$	gasket	Silicone rubber
Proof voltage (V)	2500	insulator	PTFE
Conductor resistance ( $m\Omega$ )	outer conductor $< 0.4$ inner conductor $< 0.8$	IV. Environment	
II. Mechanical Performance		Temp. range	-55°C~+155°C
Nut torque	5N.m	Weather standard	IEC 60068 55 / 155/ 56
(Nut) Whorl pull	500N	Thermal shock	US MIL-STD 202,Meth.107,Cond.B
Tensile force (cable-connect)	500N	Vibration	US MIL-STD 202,Meth.204,Cond.B
Torsion (cable-connect)	5N.m	Shock	US MIL-STD 202,Meth.213,Cond.I
		Waterproofing standard IP67	
		V. Assembly: inner conductor installed and outer conductor crimped.	

MATERIAL:	UNLESS OTHERWISE SPECIFIED	DFTM.	D. J. H.	TIMES MICROWAVE SYSTEMS
		DATE	8/9/11	
USED ON: 0	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° FRACTIONS $\pm$ N/A	CHKD.	J. D. B.	<b>EZ-600-NMH-X</b> "N" MALE FOR LMR-600 CABLE EZ/CRIMP/NO BRAID TRIM
		DATE	8/16/11	
SCALE: N/A	DWG. SIZE: A	APPD.	J. D. B.	SHEET 1 of 1 SD3190-2627 REV. A
DO NOT SCALE DRAWING	CODE IDENT: 68999	DATE	8/16/11	

## Times Microwave LMR-600 Low Loss Flexible Coax Cable Black PE Jacket



### LMR-600



## Times Microwave Systems Connector Specification

### Configuration

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

### Features

- Max Operating Frequency of 8 GHz
- Low Loss Cable
- Phase Velocity 87% VoP

### Applications

- Laboratory Applications
- General Purpose RF Interconnect

### Description

LMR-600 coax cable from Fairview is only one of a large number of radio frequency twinaxial and coaxial cable types specifically stocked to be ready for quick shipment. Fairview Microwave LMR-600 coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This low loss flexible 50 Ohm coax cable LMR-600 is constructed with a 0.59 inch diameter and PE jacket.

LMR-600 flexible 50 Ohm coax cable with PE jacket is rated for a 8 GHz maximum operating frequency. This 50 Ohm 0.59 inch diameter and low loss flexible coax cable is built with a shield count of 2 and RF shielding of 90 dB.

Fairview Microwave LMR-600 coax is constructed with PE (F) dielectric and a maximum operating temperature of 85 degrees C. Times Microwave LMR-600 coax cable specs for this wire properties can be found on its RF coax cable LMR-600 datasheet PDF specifications above.

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

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

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
Cutoff Frequency		10.3		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			0.53	Ohms/1000ft

Times Microwave LMR-600 Low Loss Flexible Coax Cable Black PE Jacket



**LMR-600**

**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	0.5	1	1.2	1.7	2.5	dB/100ft
	1.64	3.28	3.94	5.58	8.2	dB/100m
Input Power (CW), Max	4,240	2,410	1,970	1,350	930	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	5.8	GHz
Attenuation, Typ	3.3	3.7	3.9	4.4	7.3	dB/100ft
	10.83	12.14	12.8	14.44	23.95	dB/100m
Input Power (CW), Max	700	630	590	520	320	Watts

**Mechanical Specifications**

Diameter	0.59 in [14.99 mm]
Weight	0.137 lbs/ft [0.2 kg/m]
Min. Bend Radius (Installation)	1.5 in [38.1 mm]
Min. Bend Radius (Repeated)	6 in [152.4 mm]
Bending Moment	2.75 lbs-ft [3.73 N-m]
Tensile Strength	350 lbs [158.76 kg]
Flat Plate Crush	60 lbs/in [1.07 kg/mm]

**Construction Specifications**

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Aluminum, 1 Strand	0.176 in [4.47 mm]
Conductor Type	Solid	
Dielectric	PE (F)	0.455 in [11.56 mm]
First Shield	Aluminum Tape	
Second Shield	Tinned Copper Braid	
Jacket	PE, Black	0.59 in [14.99 mm]

## Times Microwave LMR-600 Low Loss Flexible Coax Cable Black PE Jacket



### LMR-600

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#### Environmental Specifications

##### Temperature

Operating Range

-40 to 85 deg C

Storage Range

-70 to 85 deg C

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

#### Plotted and Other Data

Notes:

Times Microwave LMR-600 Low Loss Flexible Coax Cable Black PE Jacket from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

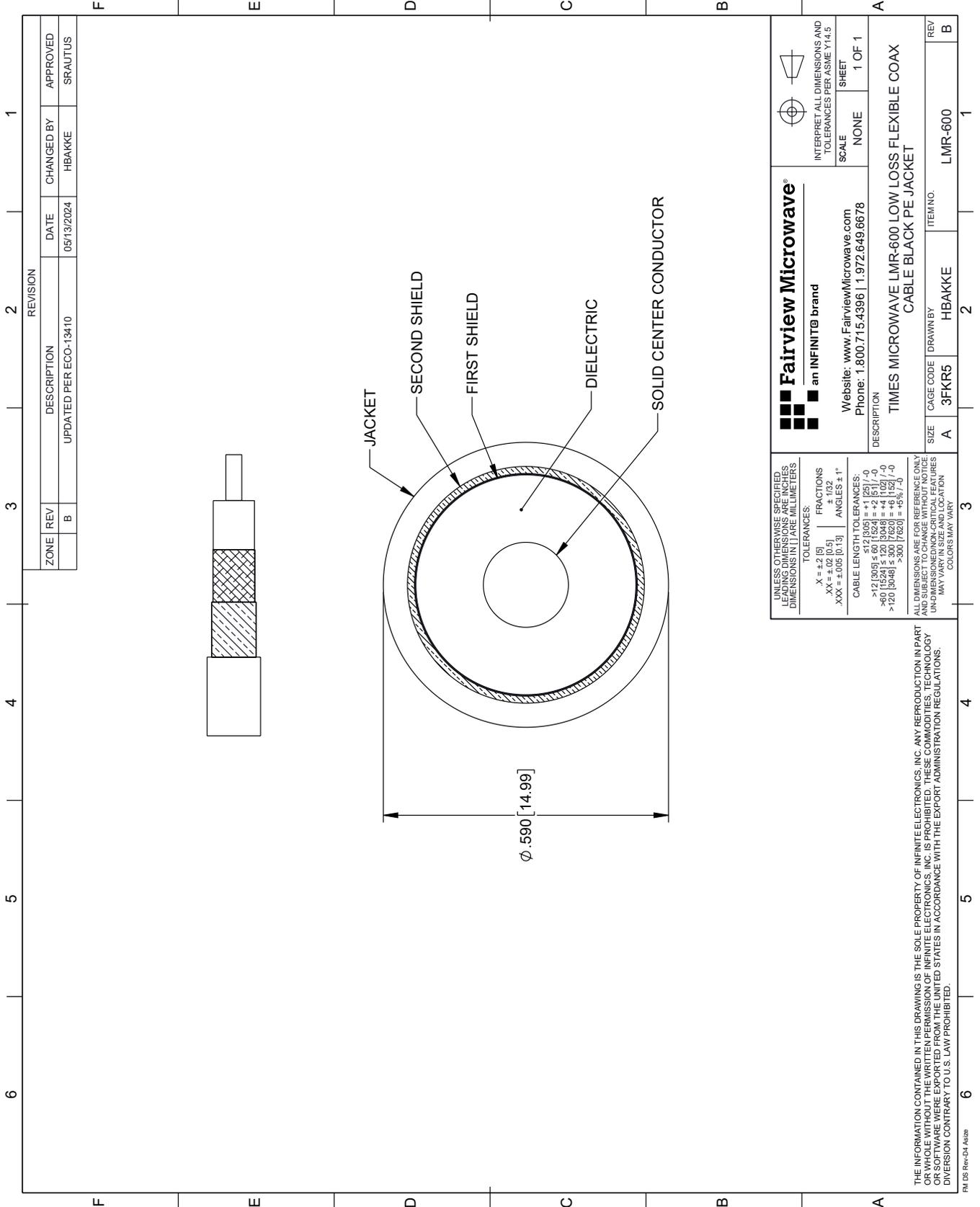
For additional information on this product, please click the following link: [Times Microwave LMR-600 Low Loss Flexible Coax Cable Black PE Jacket LMR-600](#)

URL: <https://www.fairviewmicrowave.com/lmr600-low-loss-flexible-coax-cable-pe-jacket-lmr-600-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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

# LMR-600 CAD Drawing

Times Microwave LMR-600 Low Loss Flexible Coax Cable Black PE Jacket



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

 <b>Fairview Microwave</b> an INFINITIB brand		Website: <a href="http://www.FairviewMicrowave.com">www.FairviewMicrowave.com</a> Phone: 1.800.715.4396   1.972.649.6678	INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN MILLIMETERS.		TOLERANCES: .X = +.2 (5) ± 1/32 .XX = ±.02 (0.5) .XXX = ±.005 (0.13) ANGLES ± 1°	
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE NON-CRITICAL FEATURES. COLORS MAY VARY.		DESCRIPTION: TIMES MICROWAVE LMR-600 LOW LOSS FLEXIBLE COAX CABLE BLACK PE JACKET SIZE: A CAGE CODE: 3FKR5 DRAWN BY: HBAKKE ITEM NO.: LMR-600	

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