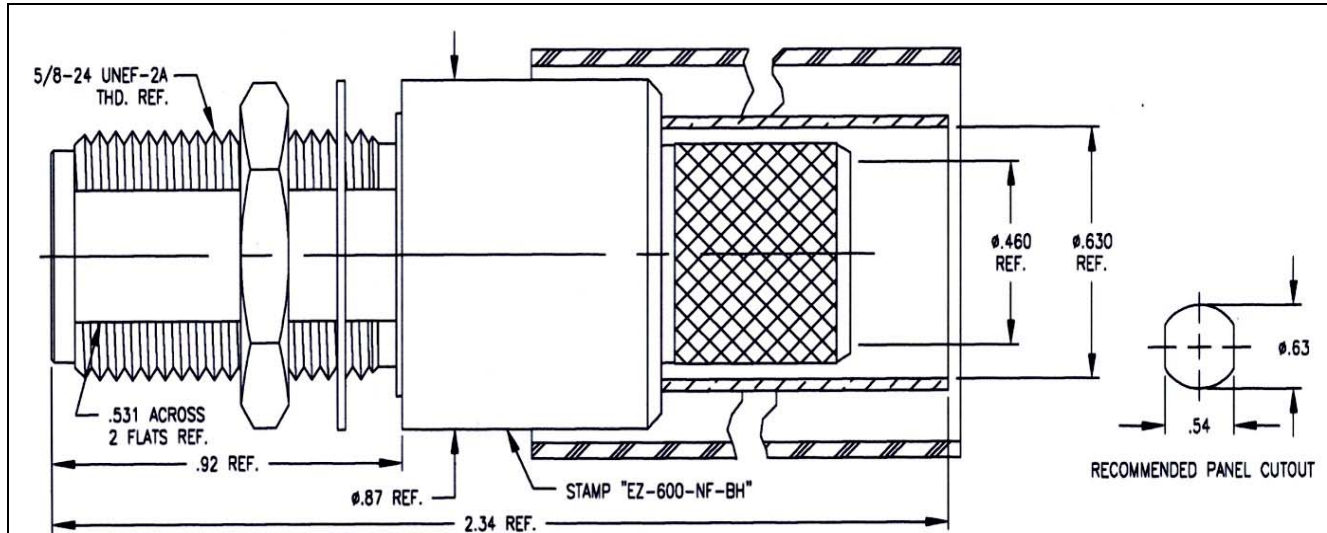


LTR	DESCRIPTION	DATE	BY
-	Released	10/27/97	JCL



### I. MATERIALS & FINISHES

center contact: Gold Plated Beryllium Copper (non-solder)  
 outer contact: Silver Plated Brass  
 body: Silver Plated Brass  
 crimp sleeve: Silver Plated Copper  
 lockwasher: Spring Steel  
 hex nut:: Silver Plated Brass  
 dielectric: Teflon® PTFE  
 gasket: Silicone Rubber  
 shrink sleeve: Adhesive Lined Polyolefin  
 attachment: braid crimp

### II. ELECTRICAL PROPERTIES

impedance: 50 ohms  
 working voltage: 1000 vrms (max)  
 vswr: 1.25:1 (max) up to 2.5 GHz  
 insertion loss:  $0.10 \times \sqrt{F_{\text{ghz}}}$

Unless otherwise specified, dimensions are in inches. Tolerances are applicable when specified.

These drawings and specifications contain proprietary information which is the property of Times Microwave Systems.

### Approvals

Drawn	JCL	10/27/97



### TIMES MICROWAVE SYSTEMS

Wallingford, CT 06492  
 (203) 949-8400; (203) 949-8423.Fax  
 www.timesmicrowave.com

### EZ-600-NF-BH

Type-N female (jack) Bulkhead  
 for LMR-600 Cable

Size A	CAGE CODE 68999	Drawing No.: 3190-616
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Scale: NA

Rev. (-)

Sheet: 1 of 1

## N Male Connector Crimp/Solder Attachment for LMR-600 Cable

### Times Microwave Systems Connector Specification

Type N male connector with crimp/solder attachment for LMR-600, part number TC-600-NMH-X, from Fairview Microwave is in-stock and ships same day. This type N male connector operates up to a maximum frequency of 6 GHz and offers excellent VSWR of 1.25:1.

Fairview's type N male connector TC-600-NMH-X datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them same-day.

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		6	GHz
VSWR			1.25:1	
DWV (AC)			2,500	Vrms
Insulation Resistance	5,000			MOhms

### Performance by Frequency

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

### Mechanical Specifications

<b>Size</b>	
Length	1.82 in [46.23 mm]
Width/Dia.	0.801 in [20.35 mm]
Weight	0.102 lbs [46.27 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



### Configuration:

- N Male Connector
- 50 Ohms
- Straight Body Geometry
- LMR-600 Interface Type
- Crimp/Solder Attachment
- 20.57 mm Hex

### Features:

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

### Applications:

- General Purpose Test
- Custom Cable Assemblies

Fairview Microwave  
301 Leora Ln., Suite 100  
Lewisville, TX 75056  
Tel: 1-800-715-4396 / (972) 649-6678  
Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

## Environmental Specifications

### Temperature

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:

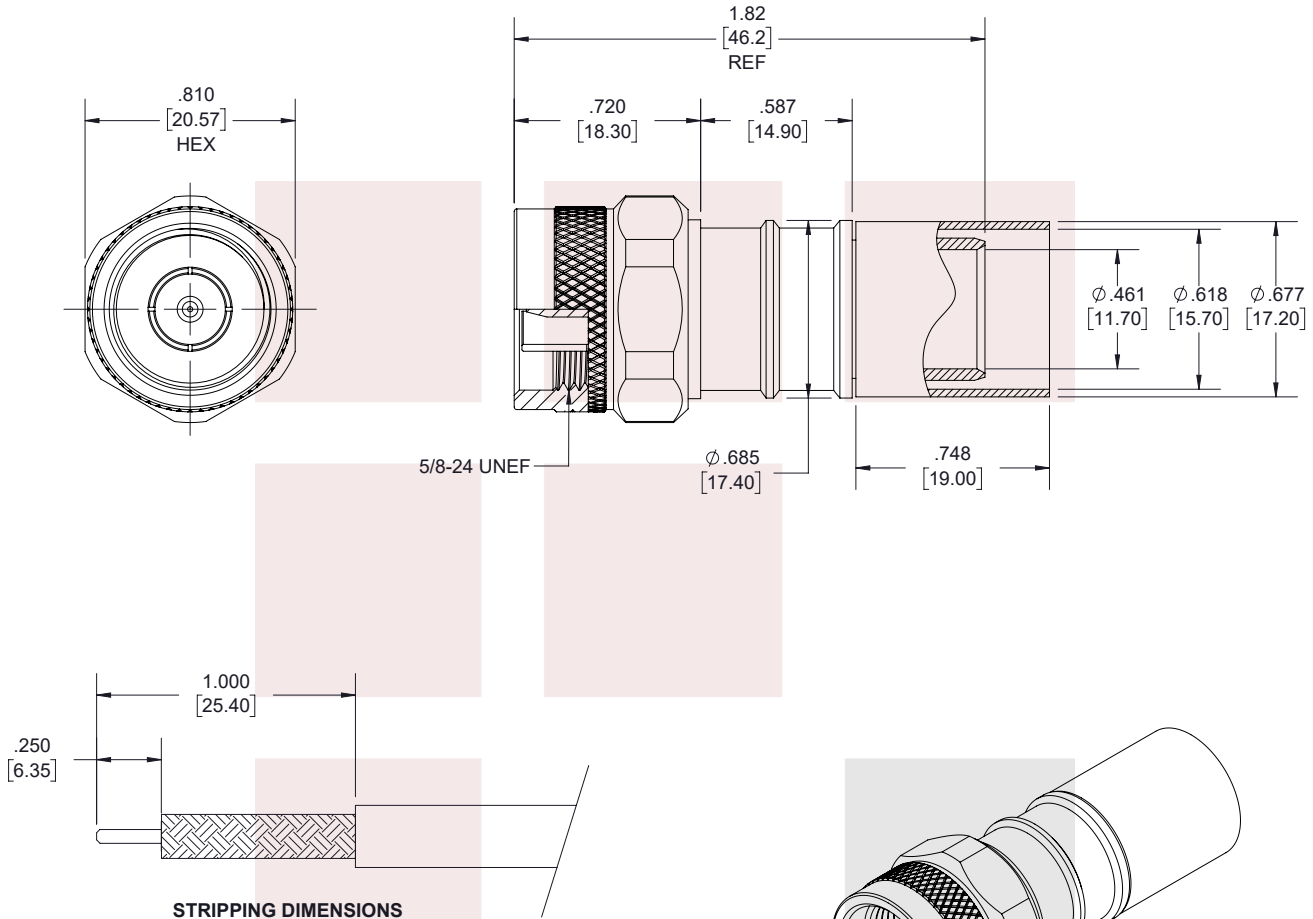
N Male Connector Crimp/Solder Attachment for LMR-600 Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [N Male Connector Crimp/Solder Attachment for LMR-600 Cable TC-600-NMH-X](#)

URL: <https://www.fairviewmicrowave.com/n-male-lmr-600-connector-tc-600-nmh-x-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. 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 any liability arising out of the use of any part or documentation.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	1/7/2020	S.ELLIS



**NOTES:**

- CABLE ATTACHMENT:
  - OUTER: CRIMP.
  - INNER: SOLDER.
- CRIMP SIZE REQUIRED:
  - FERRULE: .618 [15.70] HEX. CRIMP TOOL.
  - CONTACT: SOLDER.

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TITLE

N Male Connector Crimp/Solder Attachment for LMR-600 Cable

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

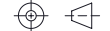
**TOLERANCES:**

.X = ±.2 [5.08] FRACTIONS  
.XX = ±.02 [.51] ± 1/32  
.XXX = ±.005 [.13] ANGLES ± 1°

**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%L / -0

**THIRD-ANGLE PROJECTION**



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SHEET 1 OF 1

SCALE

N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG	ITEM NO. TC-600-NMH-X	REV A
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T-Rev.D

## 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.

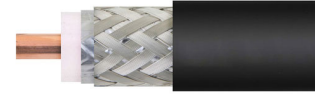
LMR-600 cable is part of more than one million RF, microwave and millimeter wave parts in stock at Fairview. This Times Microwave low loss LMR-600 coax cable is ready to buy and can be shipped worldwide. Fairview also maintains a wide selection of other radio frequency twinaxial and coaxial cable types 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>

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

