Right Angle N Male (Plug) Connector For LMR-600 Cable, Crimp/Non-Solder Contact

EZ-600-NMH-RA-X

TIMES MICROWAVE SYSTEMS
An Amphenol Company

Times Microwave Systems Connector Specification

Configuration

- N Male Connector
- 50 Ohms
- Right Angle Body Geometry
- Connector Interface Types: LMR-600
- 20.57 mm Hex

Features

- Operating Frequency of 8 GHz Max.
- Good VSWR of 1.4:1
- Gold Plated Beryllium Copper Contact
- 50 µin minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

RA type N Male Connector Crimp/Non-Solder Contact Attachment for LMR-600 Cable,, part number EZ-600-NMH-RA-X, from Fairview Microwave is in-stock and ships same day. This type N male connector operates up to a maximum frequency of 8 GHz and offers good VSWR of 1.4:1. Its right angle body geometry facilitates connections in tight spaces.

Fairview's RA type N male connector EZ-600-NMH-RA-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	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
VSWR			1.4:1	
Insertion Loss			0.28	dB
Dielectric Withstanding Voltage (AC)			1,500	Vrms
Insulation Resistance	5,000			MOhms
Impedance		50		Ohms

Electrical Specification Notes:
Insertion Loss = -0.1 x SQRT(FGHz)

Mechanical Specifications

Size	
Length	2.36 in [59.94 mm]
Width	0.81 in [20.57 mm]
Height	1.42 in [36.07 mm]
Weight	0.244 lbs [110.68 g]
Mating Cycles	500 Cycles
Mating Torque	9 to 14 in-lbs [[1.02 to 1.58 Nm]]
Cable Retention Force	200 lbs [90.72 kg]

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EZ-600-NMH-RA-X

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 50 µin minimum
Insulation	PTFE	
Body	Brass	Tri-Metal 80 µin minimum
Coupling Nut	Brass	Tri-Metal 80 µin minimum
Gasket	Silicone	
Crimp Sleeve	Copper	

Environmental Specifications

Temperature	
Operating Range	-40 to +125 deg C
Shock	MIL-STD 202, Method 213, Condition I
Vibration	MIL-STD 202, Method 204, Condition B
Thermal Shock	MIL-STD 202G, Method 107, Condition B

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

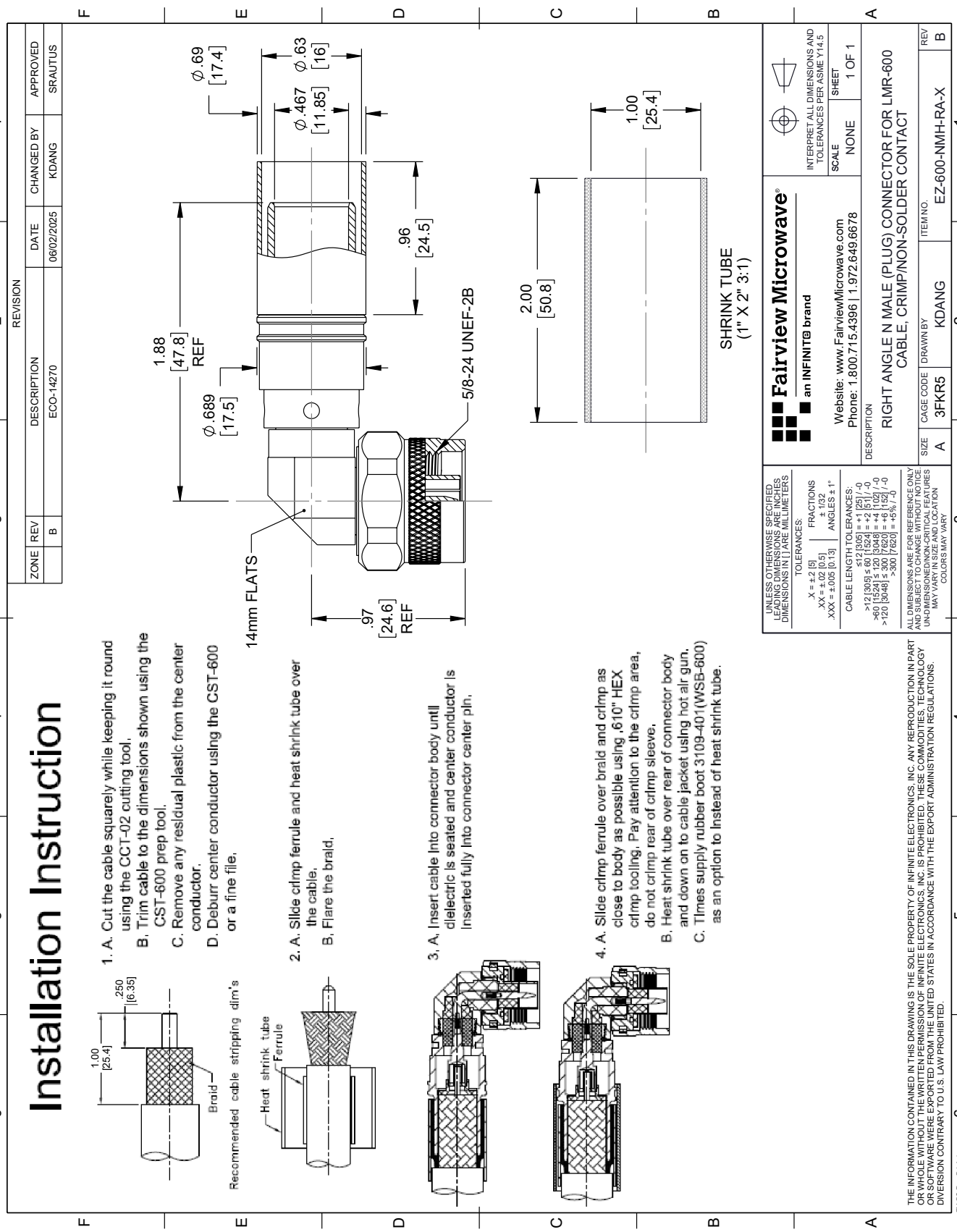
Right Angle N Male (Plug) Connector For LMR-600 Cable, Crimp/Non-Solder Contact from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Right Angle N Male (Plug) Connector For LMR-600 Cable, Crimp/Non-Solder Contact EZ-600-NMH-RA-X

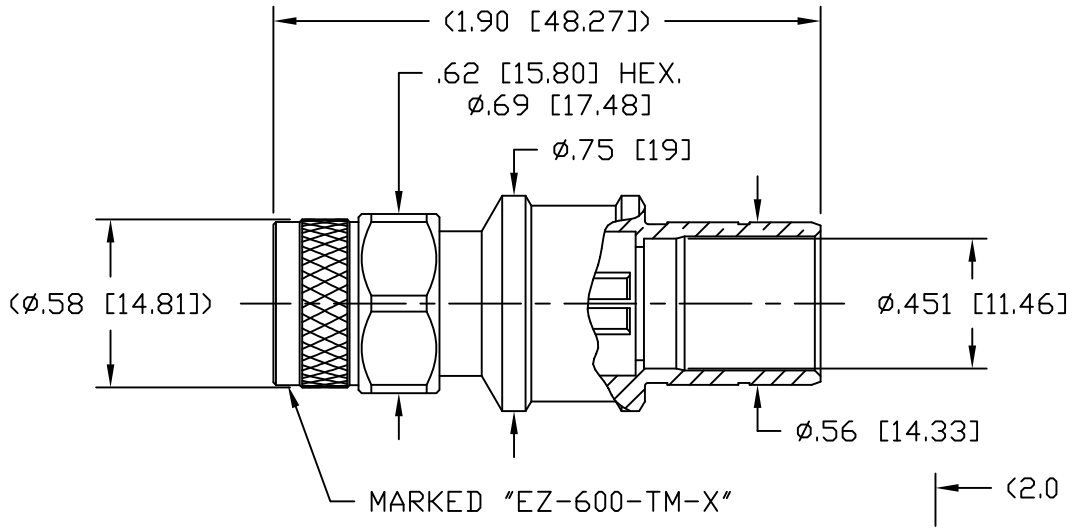
URL: https://www.fairviewmicrowave.com/product/rf-connectors/n-male-lmr-600-connector-ez-600-nmh-ra-x.html

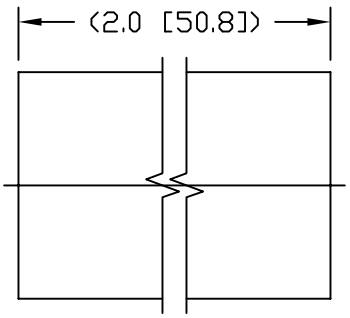
EZ-600-NMH-RA-X CAD Drawing

Right Angle N Male (Plug) Connector For LMR-600 Cable, Crimp/Non-Solder Contact

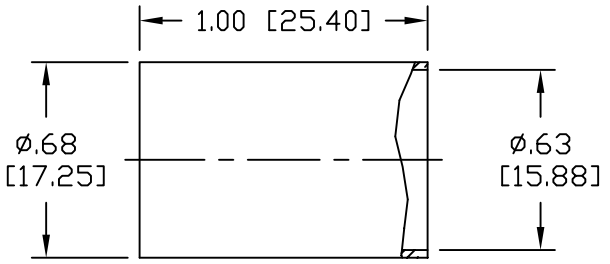


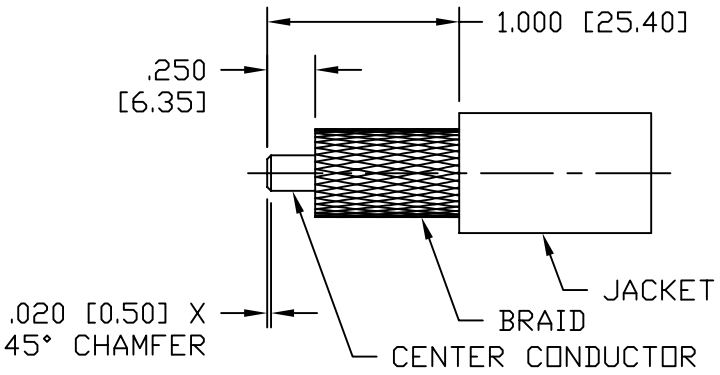
SYM	REVISION DESCRIPTION	DFTM	DATE	APPD	DATE
A	RELEASED FOR PRODUCTION	K.A.M.	2/24/10	J.D.B.	3/11/10
B	CHANGED PER CDC #34322	D.J.H.	10/12/11	J.D.B.	10/27/11





HEAT SHRINK TUBING



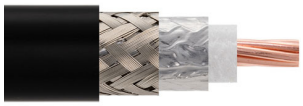


CABLE TRIMMING DIMENSIONS

NOTES:
1. MATERIALS AND FINISHES:
   BODY: BRASS, ALBALOY PLATING
   COUPLING NUT: BRASS, ALBALOY PLATING
   CENTER CONTACT: BERYLLIUM COPPER, GOLD PLATE
   INSULATOR: PTFE, NATURAL
   FERRULE: COPPER, ALBALOY PLATING
2. ELECTRICAL:
   IMPEDANCE: 50 OHMS NOMINAL
   FREQUENCY: DC-6 GHz
   VSWR: 1.2 DC-6 GHz
   DIELECTRIC WITHSTANDING VOLTAGE: 1,500 VOLTS RMS
3. MECHANICAL:
   DURABILITY: 500 CYCLES MIN.
   TEMPERATURE RANGE: -65°C TO +165°C
4. 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	DFTM. K. A. M.	TIMES MICROWAVE SYSTEMS
	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	DATE 2/24/10 CHKD. J. D. B. DATE 3/11/10 APPD. J. D. B.	**EZ-600-TM-X** PLUG, TNC, EZ FOR LMR-600
USED ON: A			
SCALE: ~ DWG. SIZE A	DO NOT SCALE DRAWING CODE IDENT 68999	DATE 3/11/10	SHT 1 of 1 SD3190-2531 REV B

Times Microwave LMR-600-UF Low Loss Flexible Coax Cable Black TPE Jacket Ultra Flex



LMR-600-UF

TIMES MICROWAVE SYSTEMS
An Amphenol Company

Times Microwave Systems Connector Specification

Configuration

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

Features

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

Applications

- Laboratory Applications
- General Purpose RF Interconnect
- RF Test Systems Requiring Highly Flexible Coax
- Antenna Installs

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 Fairview Microwave of radio frequency coaxial cable types specifically stocked to be ready for same-day shipment. Fairview Microwave 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. Fairview Microwave'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 Fairview Microwave. This Times Microwave low loss ultra flexible LMR-600-UF coax cable is ready to buy and can be shipped worldwide. Fairview Microwave 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
Outer Conductor DC Resistance			1.2	Ohms/1000ft

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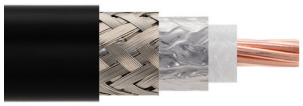
Times Microwave LMR-600-UF Low Loss Flexible Coax Cable Black TPE Jacket Ultra Flex



LMR-600-UF

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
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	0.176 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]

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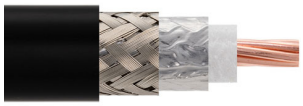

LMR-600-UF

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:

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For additional information on this product, please click the following link: Times Microwave LMR-600-UF Low Loss Flexible Coax Cable Black TPE Jacket Ultra Flex LMR-600-UF

URL: https://www.fairviewmicrowave.com/lmr-600-uf-low-loss-flexible-coax-cable-tpe-jacket-lmr-600-uf-p.aspx

LMR-600-UF CAD Drawing

Times Microwave LMR-600-UF Low Loss Flexible Coax Cable Black TPE Jacket Ultra Flex