

N Male Right Angle Connector Crimp/Non-Solder Contact Attachment for LMR-600, LMR-600- DB, LMR-600-FR, and 600-Series Cable



EZ-600-NMH-RA-X-LC



Times Microwave Systems Connector Specification

Configuration

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

Features

- Designed to industry standard interface dimensions
- Quality body materials and plating
- Crimp/Non-Solder Contact attachment
- Operates to 6 GHz

Applications

- RF Boxes and components
- RF Test systems
- General Purpose RF Interconnect
- Laboratory applications

Description

L-com's N Male connector for LMR-600, LMR-600-DB, LMR-600-FR and 600-Series coax uses a Crimp/Non-Solder Contact attachment method. This N connector is one of the many RF coaxial connectors in L-com's product line up and like all our products, they will ship the same day. Our N Male connector operates up to a maximum frequency of 6 GHz.

The specifications and a basic dimensional drawing for EZ-600-NMH-RA-X-LC Male N connector can be found in this datasheet PDF. L-com's portfolio of RF and microwave connectors allows users to choose from a large number of options when building assemblies to fit their RF interconnect needs. RF cables can be created to fulfill many interconnect applications ranging from In the Box hookup, test equipment connectivity or as part of a system installation. In addition to an offering of RF connectors and coaxial cable L-com offers both standard and custom cable assemblies to fit a customer's specific needs.

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 = $-0.1 \times \text{SQRT}(\text{FGHz})$

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	0.243 lbs [110.22 g]
Mating Cycles	500 Cycles
Mating Torque	9 to 14 in-lbs [[1.02 to 1.58 Nm]]

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EZ-600-NMH-RA-X-LC

Cable Retention Force 200 lbs [90.72 kg]

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:

N Male Right Angle Connector Crimp/Non-Solder Contact Attachment for LMR-600, LMR-600-DB, LMR-600-FR, and 600-Series Cable from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

URL: <https://www.l-com.com/n-male-right-angle-connector-crimp-non-solder-contact-attachment-lmr-600-lmr-600-db-lmr-600-fr-600-series-cable-ez-600-nmh-ra-x-lc.html>

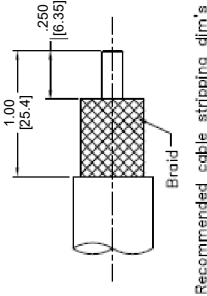
The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

EZ-600-NMH-RA-X-LC CAD Drawing

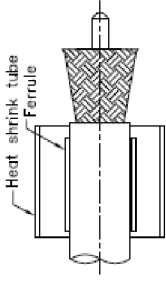
N Male Right Angle Connector Crimp/Non-Solder Contact Attachment for LMR-600, LMR-600-DB, LMR-600-FR, and 600-Series Cable

Installation Instruction

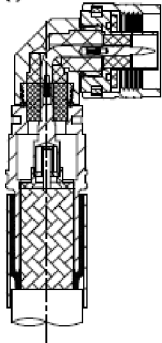
- 1. A. Cut the cable squarely while keeping it round using the CCT-02 cutting tool.
- B. Trim cable to the dimensions shown using the CST-600 prep tool.
- C. Remove any residual plastic from the center conductor.
- D. Deburr center conductor using the CST-600 or a fine file.



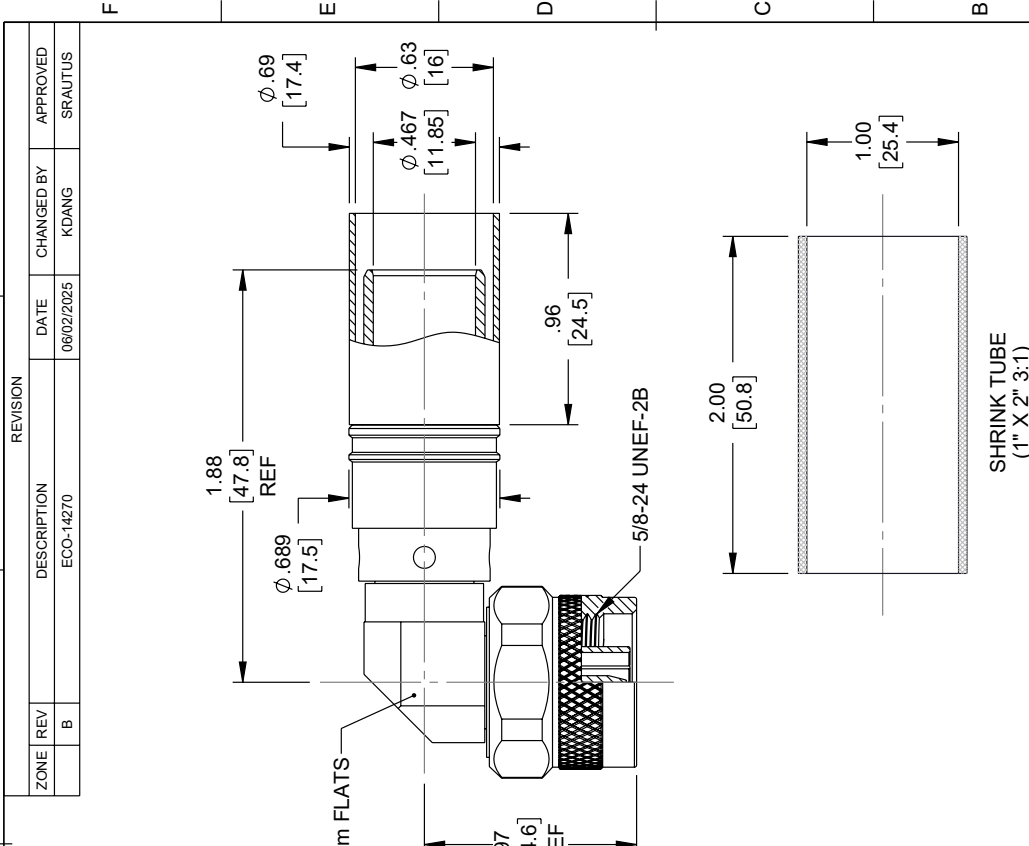
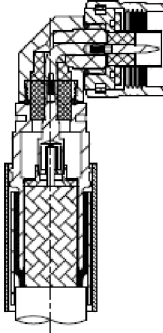
- 2. A. Slide crimp ferrule and heat shrink tube over the cable.
- B. Flare the braid.



- 3. A. Insert cable into connector body until dielectric is seated and center conductor is inserted fully into connector center pin.



- 4. A. Slide crimp ferrule over braid and crimp as close to body as possible using .610" HEX crimp tooling. Pay attention to the crimp area, do not crimp rear of crimp sleeve.
- B. Heat shrink tube over rear of connector body and down on to cable jacket using hot air gun.
- C. Times supply rubber boot 3109-401 (WSB-600) as an option to instead of heat shrink tube.



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TOLERANCES:		SCALE		SHEET	
X = ±.2 (5)		NONE		1 OF 1	
XX = ±.02 (0.5)					
XXX = ±.005 (0.13)					
ANGLES ± 1°					
CABLE LENGTH TOLERANCES:					
>12 (305) ≤ 60 (1524) = ±.1 (25) / -0					
>60 (1524) ≤ 120 (3048) = ±.1 (25) / -0					
>120 (3048) ≤ 300 (7620) = ±.1 (25) / -0					
>300 (7620) = ±.1 (25) / -0					
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.					
DESCRIPTION		ITEM NO.		REV	
N MALE RIGHT ANGLE CONNECTOR CRIMP/NON-SOLDER CONTACT ATTACHMENT FOR LMR-600		EZ-600-NMH-RA-X-LC		B	
SIZE		CAGE CODE		DRAWN BY	
A		43321		KDANG	