

N Male Low PIM Connector Clamp/Solder Attachment for TCOM-600, TCOM-600-FR, LMR-600, LMR-600-DB, LMR-600-FR, LMR-600-UF



TCP-600-NMC-LP

Configuration

- N Male Connector
- IEC-61169-16
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: TCOM-600, TCOM-600-FR, LMR-600, LMR-600-DB, LMR-600-FR, LMR-600-UF, LMR-LW600
- Low PIM Design

Features

- Operating Frequency of 6 GHz Max.
- Good VSWR of 1.3:1
- PIM levels better than -160 dBc
- Silver Plated Brass Contact
- 200 µin minimum contact plating

Applications

- General Purpose Test
- Wireless Communications
- Custom Cable Assemblies
- Low PIM Applications

Description

Type N Male Low PIM Connector Clamp/Solder Attachment for TCOM-600, TCOM-600-FR, LMR-600, LMR-600-DB, LMR-600-FR, LMR-600-UF and LMR-LW600 Cable, part number TCP-600-NMC-LP, 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 good VSWR of 1.3:1. The type N male connector also has low passive intermodulation (PIM) of -160 dBc.

Fairview's type N male connector TCP-600-NMC-LP 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		6	GHz
VSWR			1.3:1	
Insertion Loss			0.245	dB
Passive Intermodulation			-160	dBc
Impedance		50		Ohms

Mechanical Specifications

Size

Length	1.902 in [48.31 mm]
Width	0.961 in [24.41 mm]
Height	0.961 in [24.41 mm]
Weight	0.26 lbs [117.93 g]
Mating Cycles	500 Cycles
Mating Torque	44.25 in-lbs [[5.00 Nm]]

N Male Low PIM Connector Clamp/Solder
Attachment for TCOM-600, TCOM-600-FR, LMR-
600, LMR-600-DB, LMR-600-FR, LMR-600-UF



TCP-600-NMC-LP

Material Specifications

Description	Material	Plating
Contact	Brass	Silver 200 µin minimum
Insulation	PTFE	
Body	Brass	Tri-Metal 80 µin minimum
Retaining Ring	Brass	Silver 200 µin minimum
Gasket	Silicone	
Crimp Sleeve	Brass	Tri-Metal

Environmental Specifications

Temperature

Operating Range

-40 to +125 deg C

Shock

MIL-STD-202G, Meth.213, Con.I

Vibration

MIL-STD-202G, Meth.204, Cond.B

Thermal Shock

MIL-STD-202G, Meth.107, Cond.B

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

Plotted and Other Data

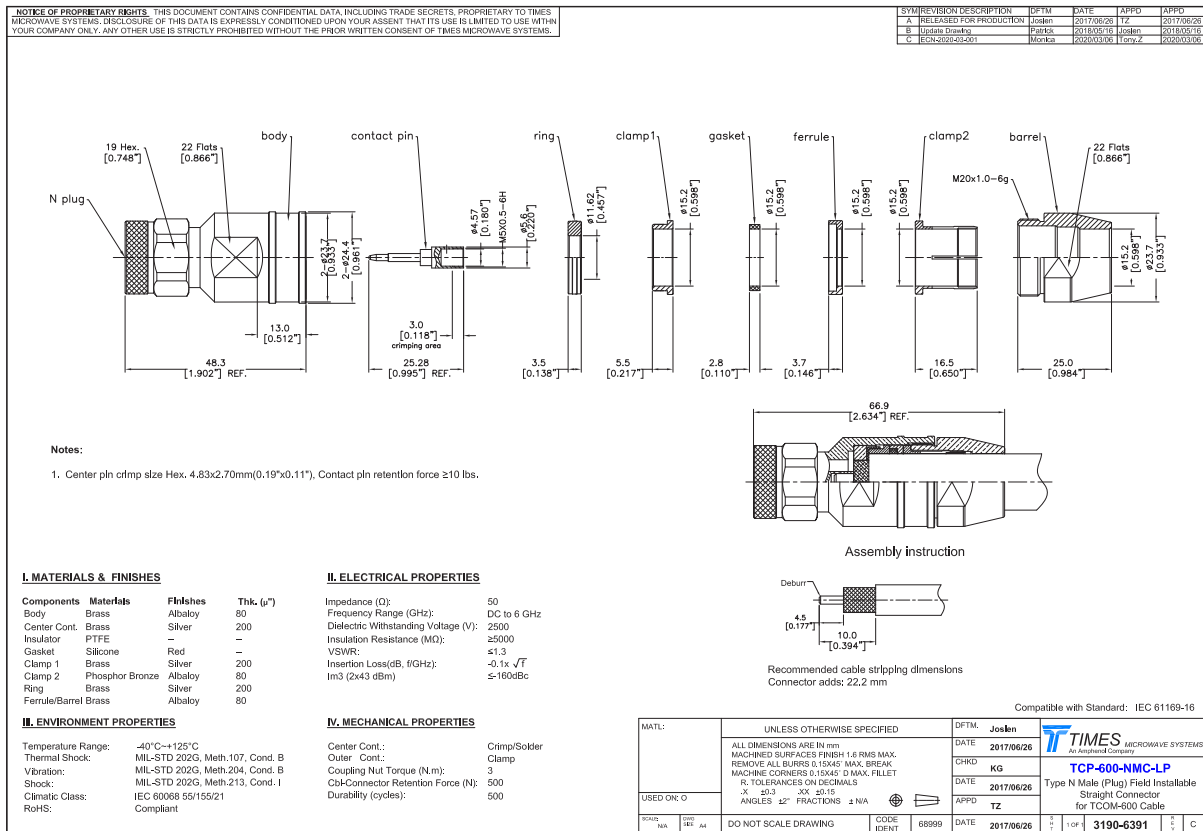
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TCP-600-NMC-LP



Assembly Instruction



N Male Low PIM Connector Clamp/Solder Attachment for TCOM-600, TCOM-600-FR, LMR-600, LMR-600-DB, LMR-600-FR, LMR-600-UF 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.

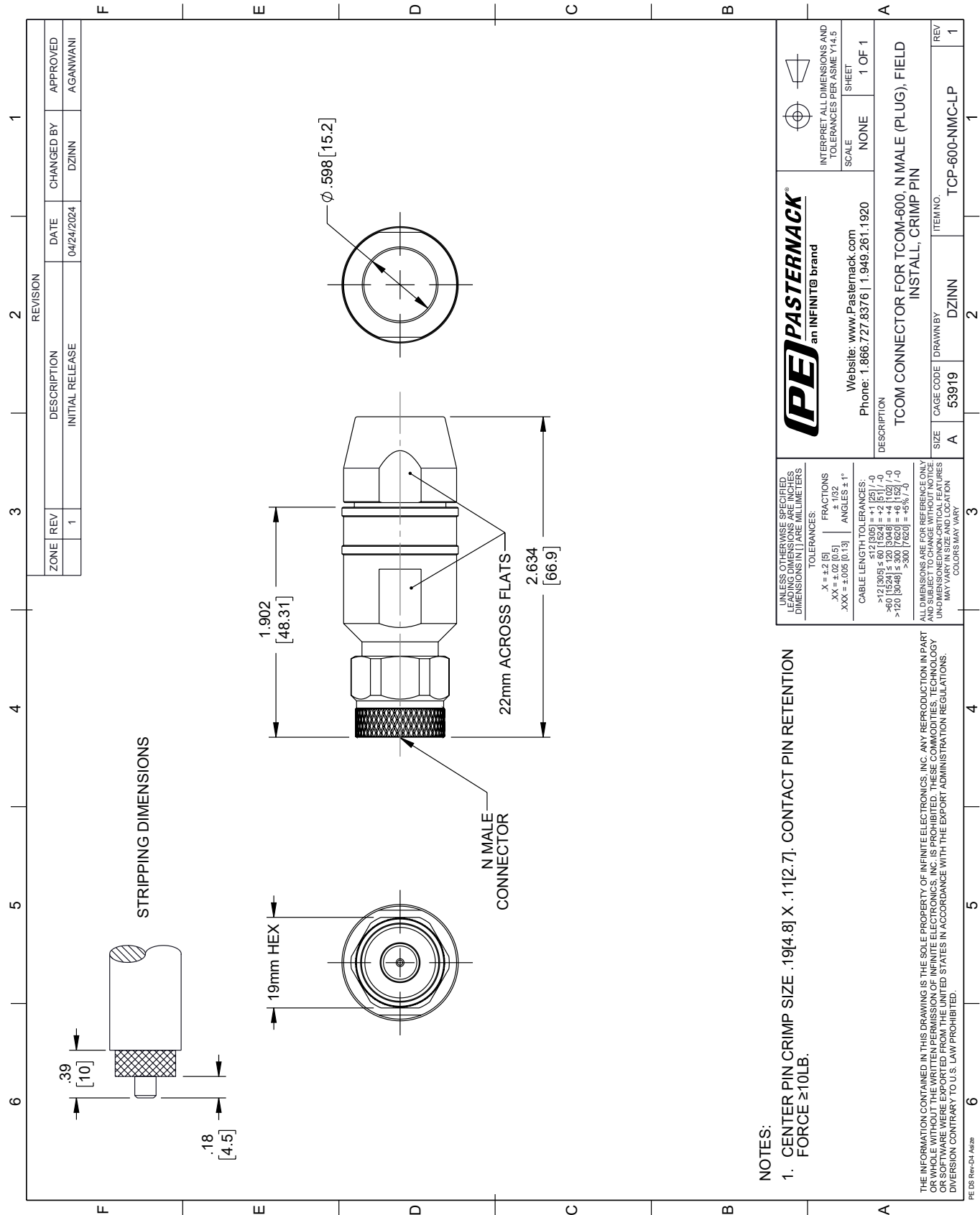
For additional information on this product, please click the following link: [N Male Low PIM Connector Clamp/Solder Attachment for TCOM-600, TCOM-600-FR, LMR-600, LMR-600-DB, LMR-600-FR, LMR-600-UF TCP-600-NMC-LP](https://www.fairviewmicrowave.com/n-male-tcom-600-tcom-600-fr-lmr-600-lmr-600-db-lmr-600-fr-lmr-600-uf-lmr-600-connector-tcp-600-nmc-lp-p.aspx)

URL: <https://www.fairviewmicrowave.com/n-male-tcom-600-tcom-600-fr-lmr-600-lmr-600-db-lmr-600-fr-lmr-600-uf-lmr-600-connector-tcp-600-nmc-lp-p.aspx>

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TCP-600-NMC-LP CAD Drawing

N Male Low PIM Connector Clamp/Solder Attachment for TCOM-600, TCOM-600-FR, LMR-600, LMR-600-DB, LMR-600-FR, LMR-600-UF



NOTES:
1. CENTER PIN CRIMP SIZE .19[4.8] X .11[2.7]. CONTACT PIN RETENTION FORCE ≥10LB.

N Male Low PIM Connector Clamp/Solder Attachment for TCOM-600, TCOM-600-FR, LMR-600, LMR-600-DB, LMR-600-FR, LMR-600-UF



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

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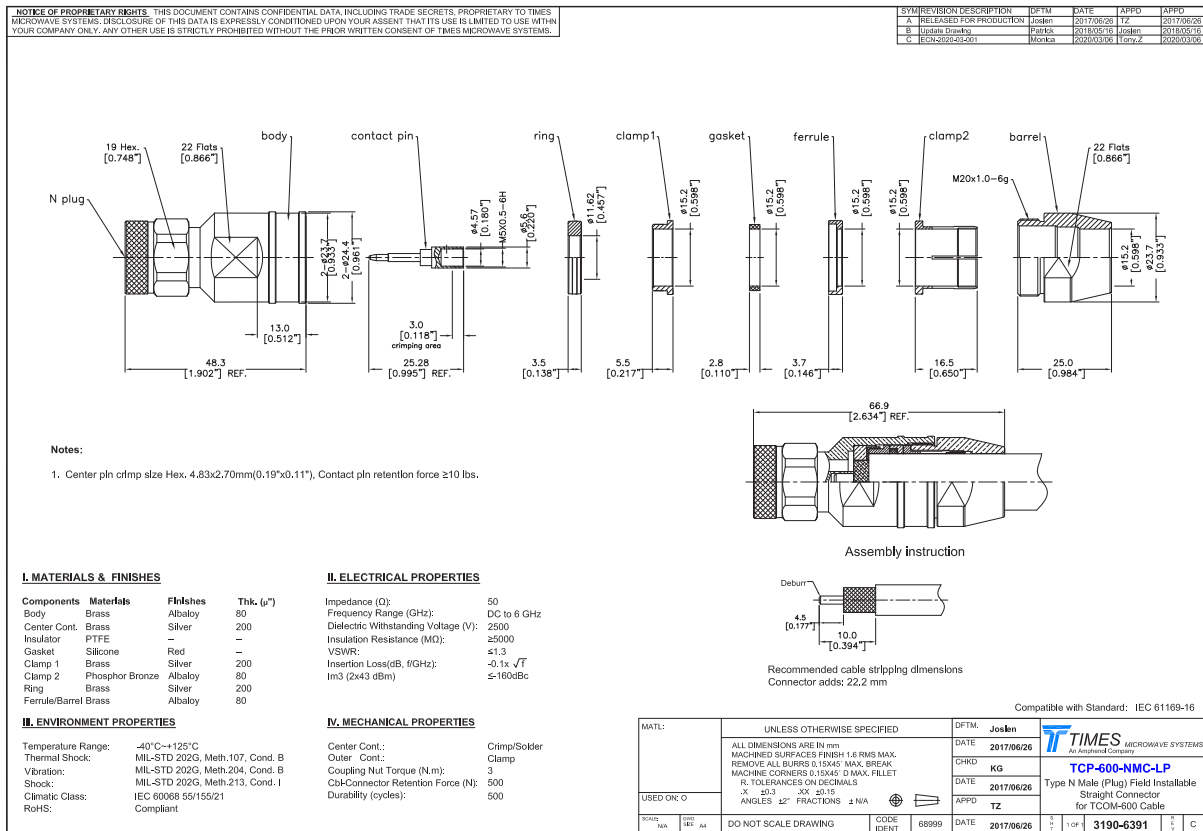
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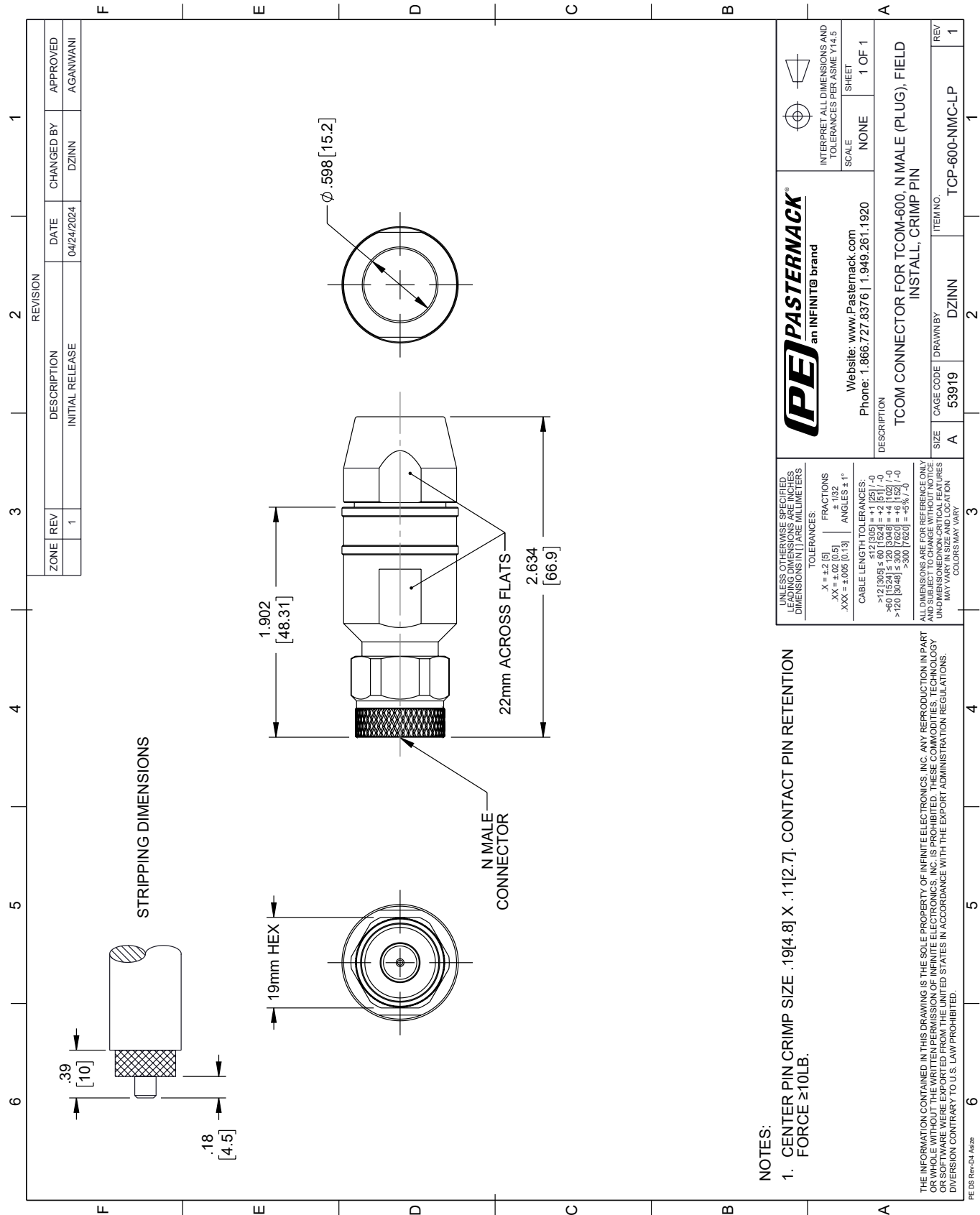
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URL: <https://www.fairviewmicrowave.com/n-male-tcom-600-tcom-600-fr-lmr-600-lmr-600-db-lmr-600-fr-lmr-600-uf-lmr-600-connector-tcp-600-nmc-lp-p.aspx>

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TCP-600-NMC-LP CAD Drawing

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NOTES:
1. CENTER PIN CRIMP SIZE .19[4.8] X .11[2.7]. CONTACT PIN RETENTION FORCE ≥10LB.

Times Microwave LMR-LW600 Low Loss Flexible Coax Cable Black PE Jacket Light Weight

Times Microwave Systems Coax Cable Specification

LMR-LW600 Light weight 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-LW600 coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This low loss and light weight flexible 50 Ohm coax cable LMR-LW600 is constructed with a 0.590 inch diameter and Black PE jacket.

LMR-LW600 flexible 50 Ohm coax cable with PE jacket is rated for a 8 GHz maximum operating frequency. This 50 Ohm 0.590 inch diameter and low loss flexible coax cable is built with an aluminum double shield count and RF shielding of 90 dB. Times Microwave LMR-LW600 PE coax is constructed with Foam PE dielectric and a maximum operating temperature of 85 degrees C. Fairview Microwave's offering of LMR-LW600 coax cable provides specs for this wire on its RF coax cable LMR-LW600 datasheet.

LMR-LW600 cable is part of more than one million RF, microwave parts in stock at Fairview Microwave. This Times Microwave low loss and light weight LMR-LW600 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	Min	Typ	Max	Units
Frequency Range	DC		8	GHz
Impedance		50		Ohms
Velocity of Propagation		85		%
Time Delay		1.17 [3.84]		ns/ft [ns/m]
Shielding Effectiveness	90			dB
DWV (DC)			4,000	Vdc
Jacket Spark			8,000	Vrms
Inner Conductor DC Resist.			0.53	Ohms/1000ft
Outer Conductor DC Resist.			4.4	Ohms/1000ft
Nominal Capacitance		23.4		pF/ft
		[76.77]		[pF/m]
Nominal Inductance		0.058		uH/ft
		[0.19]		[uH/m]
Input Power (Peak)			40	kWatts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.05	0.15	0.45	0.9	1.5	GHz
Attenuation, Typ	0.5	1	1.7	2.5	3.3	dB/100ft
	1.64	3.28	5.58	8.2	10.83	dB/100m



Configuration:

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

Features:

- Max Operating Frequency of 8 GHz
- Phase Velocity 85% VoP
- Aluminum Shielding Resulting in a Light Weight Coax
- Max Operating Temperature +85°C
- PE Jacket
- Min Install Bend Radius of 1.5 inches

Applications:

- General Purpose RF Interconnect
- Laboratory Applications
- Antenna Installs
- RF Test Systems
- Wireless Communications

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Lewisville, TX 75056
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Fax: (972) 649-6689
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sales@fairviewmicrowave.com

Power In (CW), Max 4,240 2,410 1,350 930 700 Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.8	2	2.5	5.8	8	GHz
Attenuation, Typ	3.7 12.14	3.9 12.8	4.4 14.44	7.3 23.95	8.8 28.87	dB/100ft dB/100m
Power In (CW), Max	630	590	520	320	260	Watts

Mechanical Specifications

Diameter	0.59 in [14.99 mm]
Weight	0.099 lbs/ft [0.15 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	260 lbs [117.93 kg]
Flat Plate Crush	60 lbs/in [1.07 kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strands	0.176 in [4.47 mm]
Conductor Type	Solid	
Dielectric	Foam PE	0.455 in [11.56 mm]
First Shield	Aluminum Tape	[]
Second Shield	Aluminium	[]
Jacket	PE, 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

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

Plotted and Other Data

Notes:

Times Microwave LMR-LW600 Low Loss Flexible Coax Cable Black PE Jacket Light Weight from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

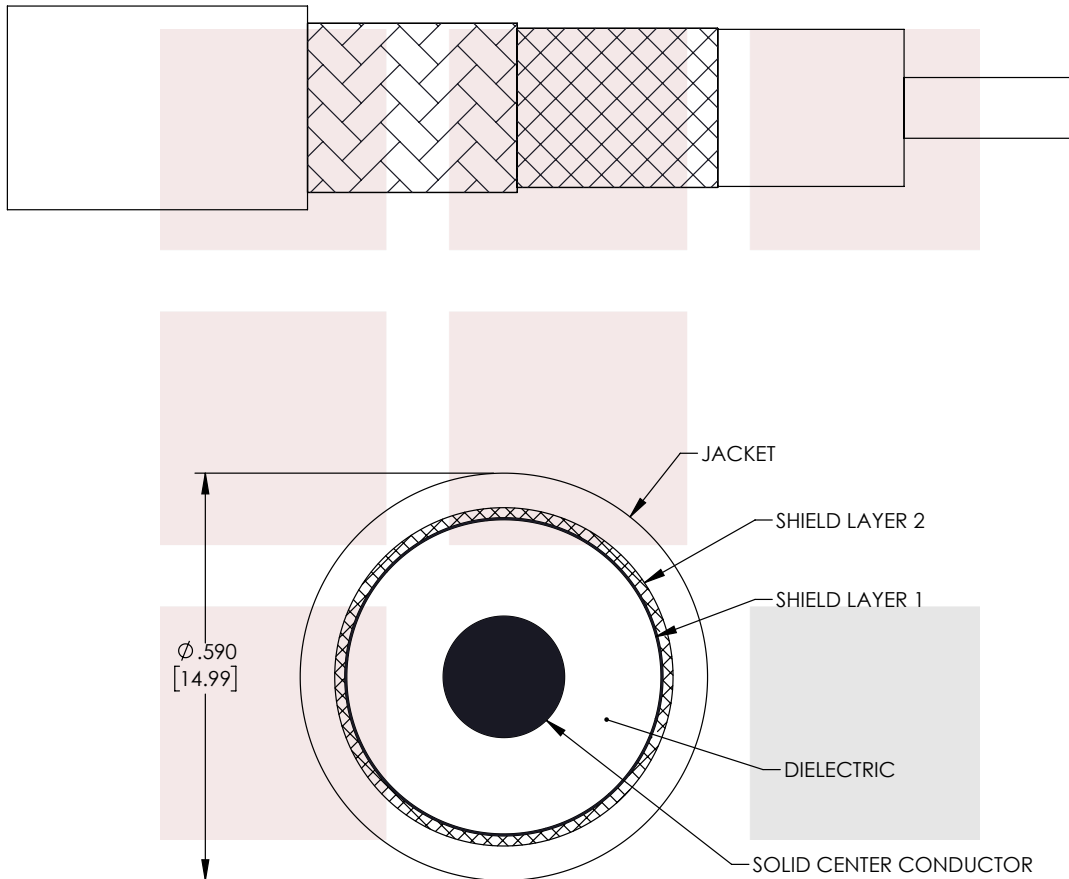
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URL: <https://www.fairviewmicrowave.com/lmr-lw600-low-loss-flexible-coax-cable-pe-jacket-lmr-lw600-p.aspx>

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



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TITLE

Times Microwave LMR-LW600 Low Loss Flexible Coax Cable Black PE Jacket Light Weight

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

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.			
SIZE A	CAGE CODE 3FKR5	DRAWN BY MVEERAPPAN	ITEM NO. LMR-LW600
			REV A

T-Rev.D