

N Male Low PIM Connector Clamp/Solder Attachment for TCOM-400, TCOM-400-FR, LMR-400, LMR-400-DB, LMR-400-FR, LMR-400-UF



TCP-400-NMC-LP

Configuration

- N Male Connector
- IEC-61169-16
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: TCOM-400, TCOM-400-FR, LMR-400, LMR-400-DB, LMR-400-FR, LMR-400-UF, LMR-LW400
- 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-400, TCOM-400-FR, LMR-400, LMR-400-DB, LMR-400-FR, LMR-400-UF and LMR-LW400 Cable, part number TCP-400-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-400-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	1.703 in [43.26 mm]
Width	0.748 in [19 mm]
Height	0.748 in [19 mm]
Weight	0.1 lbs [45.36 g]
Mating Cycles	500 Cycles
Mating Torque	44.25 in-lbs [[5.00 Nm]]

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400, LMR-400-DB, LMR-400-FR, LMR-400-UF



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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.G

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

Notes:

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TCP-400-NMC-LP

Assembly Instruction

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SYNOPSIS/REVISION DESCRIPTION		DP/TM	DATE	APPRO
A	RELEASED FOR PRODUCTION	Josken	2016/08/04	TZ
A1	Change the cable strip dimensions from 6.6mm to 6.0mm	Patrick	2018/12/13	Josken
B	Add thread on contact pin	Moroka	2018/11/13	Emy-Z
C	IEC-60068-53/155/21	Moroka	2020/03/04	Emy-Z

Notes:

- Centre pin clamp size Hex. 3.3x2.70mm(0.13"x0.11"). Contact pin retention force ≥ 10 lbs

I. MATERIALS & FINISHES

Components	Materials	Finishes	Thk. (μ ")
Body	Brass	Albaloy	80
Center Cont.	Brass	Silver	200
Insulator	PTFE	-	-
Gasket	Silicone	Red	-
Clamp 1	Brass	Silver	200
Clamp 2	Phosphor Bronze	Albaloy	80
Ring	Brass	Silver	200
Barrel/Ferrule	Brass	Albaloy	80

II. ELECTRICAL PROPERTIES

Impedance (O):	50
Frequency Range (GHz):	DC to 6 GHz
Working Voltage (V):	1000
Insulation Resistance (MQ):	≥ 5000
VSWR:	≤ 1.3
Insertion Loss(dB, f/GHz):	$-0.1 \times \sqrt{f}$
Im3 (2x43 dBm)	≤ -160 dBm(2x43dB)

III. ENVIRONMENT PROPERTIES

Temperature Range:	-40°C~+125°C
Thermal Shock:	MIL-STD 202G, Meth.107, Cond.B
Vibration:	MIL-STD 202G, Meth.204, Cond.B
Shock:	MIL-STD 202G, Meth.213, Cond.G
Climate Class:	IEC 60068 53/155/21
RoHS:	Compliant

IV. MECHANICAL PROPERTIES

Center Cont.:	Crimp /Solder
Outer Cont.:	Clamp
Coupling Nut Torque (N.m):	3
Ch-Connector Retention Force (N):	400
Durability (cycles):	500

Assembly instruction

Recommended cable stripping dimensions
connector added: 17.2mm

Compatible with Standard:
IEC 61169-16

MATERIAL		UNLESS OTHERWISE SPECIFIED		DFTM.	
		ALL DIMENSIONS ARE IN mm		Josken	
		MACHINED SURFACES FINISH 1.6 RMS MAX.		DATE 2018/12/13	
		REMOVE ALL BURRS 0.15X45° MAX. BREAK MACHINE CORNERS 0.15X45° D MAX. FILLET R. TOLERANCES ON DECIMALS		CHKD	
		X .003 X .016 ANGLES 25° FRACTIONS ± N/A		DATE 2018/12/13	
USED ON O				APPRO	
				TZ	
REV.		DO NOT SCALE DRAWING		DATE 2018/12/13	
REV. 01				CODE 68999	
				1 of 1 3190-6297	

TCP-400-NMC-LP

Type N Male (Plug) Infield Installation
Straight Connector for TCOM-400 Cable

TIMES MICROWAVE SYSTEMS
An Amphenol Company

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For additional information on this product, please click the following link: [N Male Low PIM Connector Clamp/Solder Attachment for TCOM-400, TCOM-400-FR, LMR-400, LMR-400-DB, LMR-400-FR, LMR-400-UF TCP-400-NMG-LP](#)

URL: <https://www.fairviewmicrowave.com/n-male-tcom-400-tcom-400-fr-lmr-400-lmr-400-db-lmr-400-fr-lmr-400-uf-lmr-lw400-connector-tcp-400-nmc-lp-p.aspx>

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