

TNC Male Connector Crimp/Solder Attachment for LMR-240 Cable

Times Microwave Systems Connector Specification

TNC male connector with crimp/solder attachment for LMR-240, part number TC-240-TM-X, from Fairview Microwave is in-stock and ships same day. This TNC male connector operates up to a maximum frequency of 8 GHz and offers good VSWR of 1.3:1.

Fairview's TNC male connector TC-240-TM-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		8	GHz
VSWR			1.3:1	
Insertion Loss			0.3	dB
Operating Voltage (AC)			500	Vrms
DWV (AC)			1,500	Vrms
Insulation Resistance	5,000			MOhms

Mechanical Specifications

Size	
Length	1.22 in [30.99 mm]
Width/Dia.	0.59 in [14.99 mm]
Weight	0.051 lbs [23.13 g]
Mating Cycles	500 Cycles
Mating Torque	8 to 12 in-lbs [0.90 to 1.36 Nm]

Material Specifications

Description	Material	Plating
Contact	Brass	Gold 50 pinch
Insulation	Teflon	
Body	Brass	Tri-Metal 80 pinch
Coupling Nut	Brass	Tri-Metal 80 pinch

Environmental Specifications

Temperature	
Operating Range	-40 to +125 deg C



Configuration:

- TNC Male Connector
- 50 Ohms
- Straight Body Geometry
- LMR-240 Interface Type
- Crimp/Solder Attachment

Features:

- Operating Frequency of 8 GHz Max.
- Good VSWR of 1.3:1
- Gold Plated Brass Contact
- 50 pinch contact plating

Applications:

- General Purpose Test
- Custom Cable Assemblies

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Shock
Vibration
Thermal Shock

MIL-STD 202G, Meth. 213, Cond. I
MIL-STD 202G, Meth. 204, Cond. B
MIL-STD 202G, Meth. 107, Cond. B

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

Plotted and Other Data

Notes:

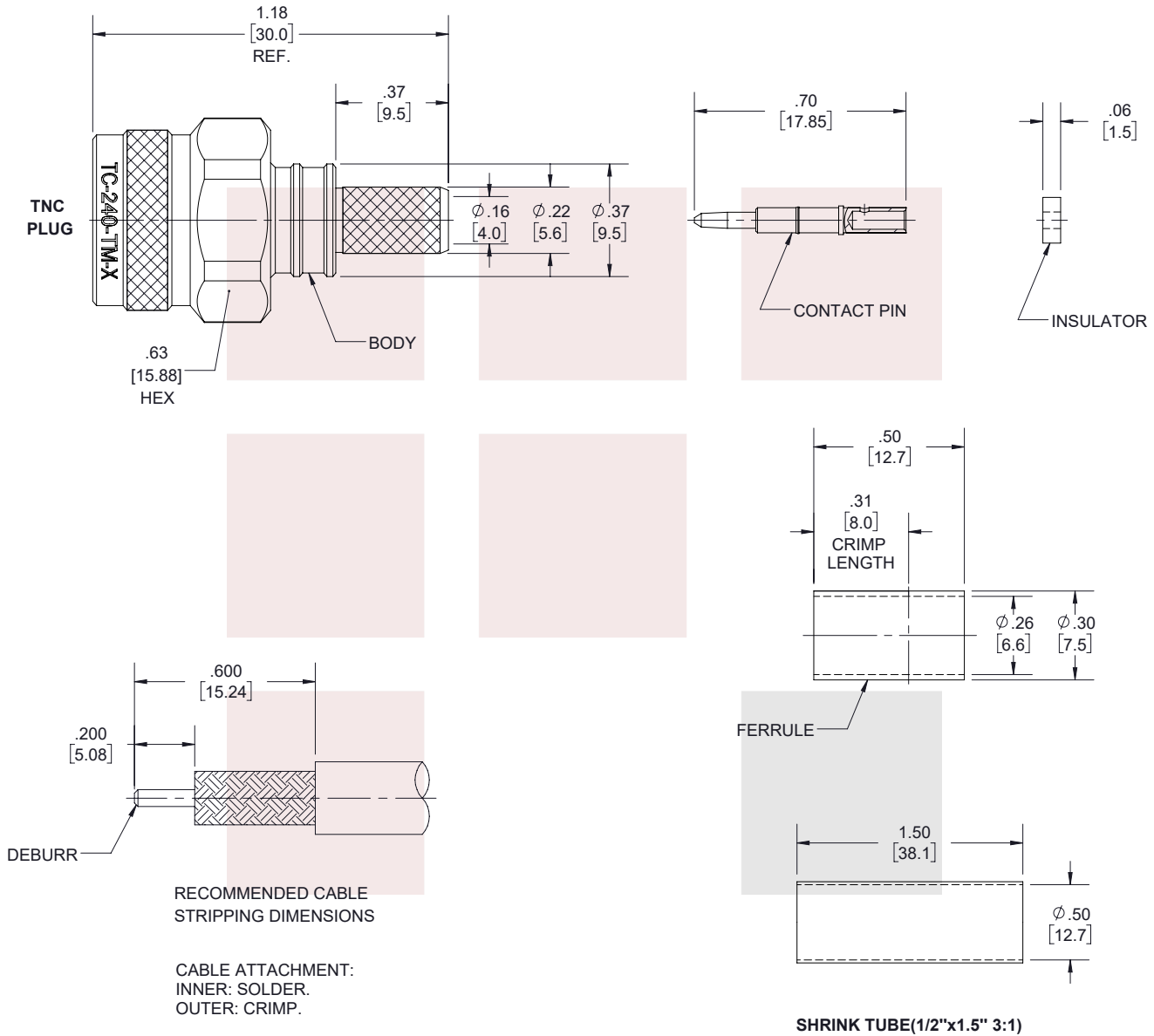
TNC Male Connector Crimp/Solder Attachment for LMR-240 Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [TNC Male Connector Crimp/Solder Attachment for LMR-240 Cable TC-240-TM-X](#)

URL: <https://www.fairviewmicrowave.com/tnc-male-lmr-240-connector-tc-240-tm-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	PCR TC-240-TM-X 20200622	06/30/20	SRAUTUS



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TITLE

TNC Male Connector Crimp/Solder Attachment for LMR-240 Cable

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

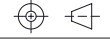
TOLERANCES:

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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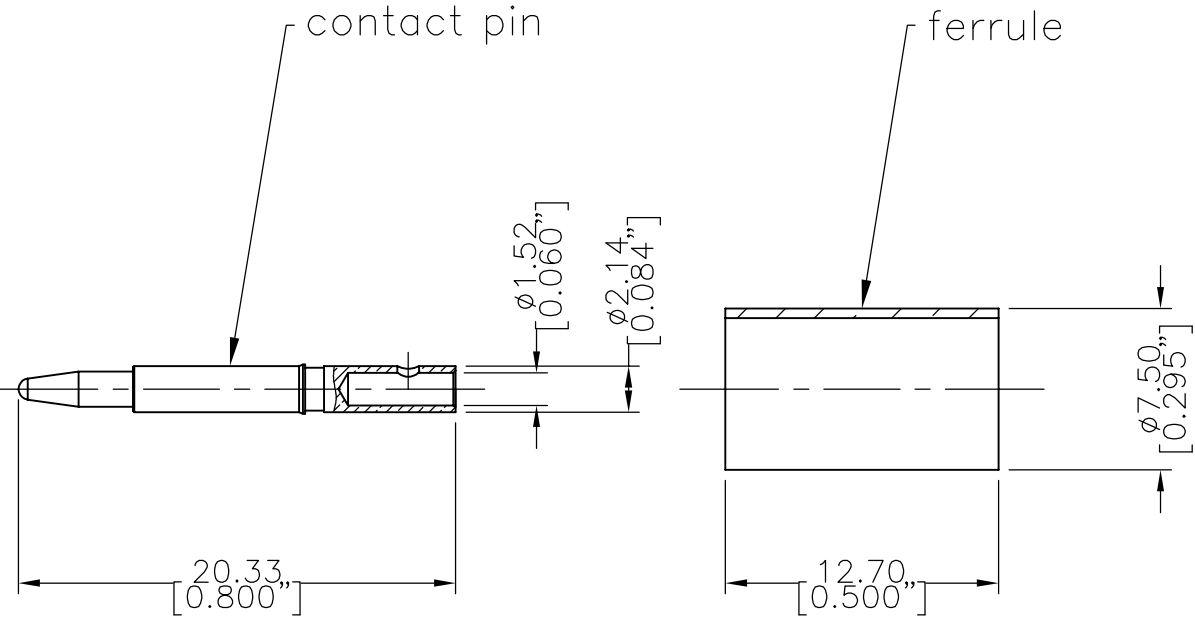
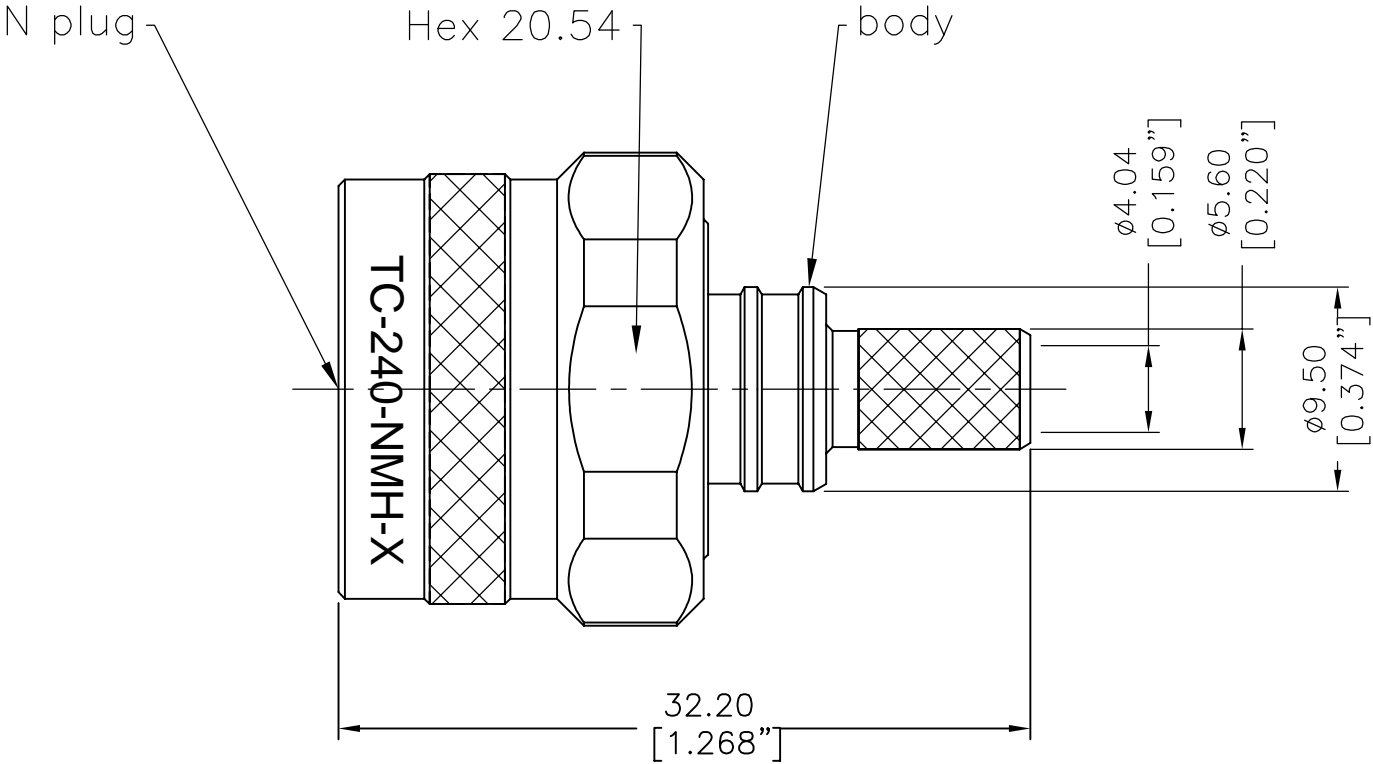
SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	SLI	TC-240-TM-X	A

T-Rev.D

SYM	REVISION DESCRIPTION	DFTM	DATE	APPD	APPD
A	RELEASED FOR PRODUCTION	Joslen	2017.08.11	TZ	2017.08.11
A1	Change inner pin dimension	Joslen	2017/12/01	TZ	2017/12/01



I. MATERIALS & FINISHES

Components	Materials	Finishes	Thk. (μ")
Body	Brass	Albaloy	80
Center Cont.	Brass	Gold	50
Ferrule	Brass	Albaloy	80
Nut	Brass	Albaloy	80
Insulator	PTFE	--	--
Gasket	Silicone	--	--

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 I
Climatic Class:	IEC 60068 55/155/56
(2002/95/EC)RoHS:	Compliant

V. TOOLING

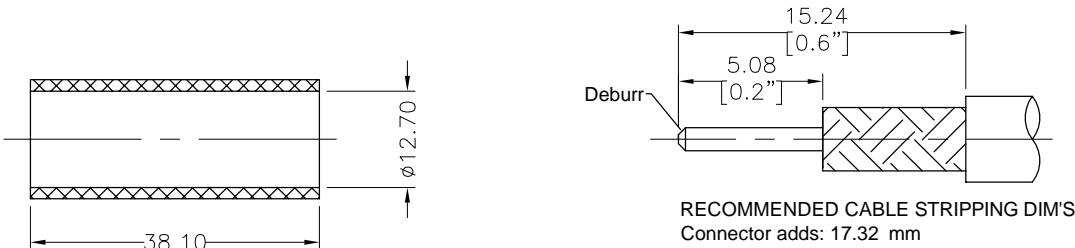
Stripping Tool: 3192-152/CST-240A
Crimping Tool: 3190-667/CT-240/200/100

II. ELECTRICAL PROPERTIES

Impedance (Ω):	50
Frequency Range (GHz):	DC to 6 GHz
Working Voltage (V):	2500
Insulation Resistance (MΩ):	≥10000
VSWR:	≤1.30
Insertion Loss(dB, f/GHz):	-0.1x √f


IV. MECHANICAL PROPERTIES

Center Cont.:	Solder
Outer Cont.:	Crimp
Coupling Nut Torque (N.m):	1.7
Cbl-Connector Retention Force (N):	250
Durability (cycles):	500



Shrink Tube (1/2"x1.5" 3:1)

According to Standard: IEC 61169-16

MATL:		UNLESS OTHERWISE SPECIFIED				DFTM. Joslen		<div></div> <div>TC-240-NMH-X</div> <div>Type N Male (Plug) Straight Solder Pin No Braid Trim Connector for LMR-240 Cable</div>				
		ALL DIMENSIONS ARE IN mm MACHINED SURFACES FINISH 1.6 RMS MAX. REMOVE ALL BURRS 0.15X45° MAX. BREAK MACHINE CORNERS 0.15X45° D MAX. FILLET R. TOLERANCES ON DECIMALS .X ±0.3 .XX ±0.15 ANGLES ±2° FRACTIONS ± N/A				DATE 2017/12/01						
CHKD KG												
DATE 2017/12/01												
USED ON: O		<div><div></div><div></div></div>				APPD TZ						
SCALE: N/A	DWG SIZE A4	DO NOT SCALE DRAWING		CODE IDENT	68999	DATE 2017/12/01		SHT	1 OF 1	3190-6381	REV	A1

Times Microwave LMR-240-UF Flexible Coax Cable Black TPE Jacket



LMR-240-UF



Times Microwave Systems Connector Specification

Configuration

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

Features

- Highly Flexible
- Low Loss Cable
- RF Shielding > 90dB
- Designed for Indoor/Outdoor Use

Applications

- Jumper Assemblies
- Short Antenna Feeder Runs
- Wireless Communications

Description

LMR-240-UF 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-240-UF coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This low loss flexible 50 Ohm coax cable LMR-240-UF is constructed with a 0.24 inch diameter and TPE jacket.

LMR-240-UF flexible 50 Ohm coax cable with TPE jacket is rated for a 8 GHz maximum operating frequency. This 50 Ohm 0.24 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-240-UF coax is constructed with PE (F) dielectric and a maximum operating temperature of 85 degrees C. Times Microwave LMR-240-UF coax cable specs for this wire properties can be found on its RF coax cable LMR-240-UF datasheet PDF specifications above.

LMR-240-UF cable is part of more than one million RF, microwave and millimeter wave parts in stock at Fairview. This Times Microwave low loss LMR-240-UF 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
Impedance		50		Ohms
Velocity of Propagation		84		%
Time Delay		1.21 [3.97]		ns/ft [ns/m]
Shielding Effectiveness	90			dB
Dielectric Withstanding Voltage (DC)			1,500	Vdc
Jacket Spark			5,000	Vrms
Inner Conductor DC Resistance			4.28	Ohms/1000ft

Times Microwave LMR-240-UF Flexible Coax Cable Black TPE Jacket



LMR-240-UF

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Outer Conductor DC Resistance			3.89	Ohms/1000ft
Nominal Capacitance		24.2 [79.4]		pF/ft [pF/m]
Nominal Inductance		0.06 [0.2]		uH/ft [uH/m]
Input Power (Peak)			5.6	kWatts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	50	150	220	450	900	MHz
Attenuation, Typ	2.1	3.6	4.4	6.3	9.1	dB/100ft
	6.89	11.81	14.44	20.67	29.86	dB/100m
Input Power (CW), Max	960	550	450	310	220	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	5.8	GHz
Attenuation, Typ	11.8	13	13.8	15.5	24.4	dB/100ft
	38.71	42.65	45.28	50.85	80.05	dB/100m
Input Power (CW), Max	170	150	140	130	80	Watts

Electrical Specification Notes:
Values at 25°C, sea level.
Attenuation = $0.290501 \cdot \sqrt{\text{FMHz}} + 0.000396$

Mechanical Specifications

Diameter	0.24 in [6.1 mm]
Weight	0.032 lbs/ft [0.05 kg/m]
Min. Bend Radius (Installation)	0.75 in [19.05 mm]
Min. Bend Radius (Repeated)	2.5 in [63.5 mm]
Bending Moment	0.13 lbs-ft [0.18 N-m]
Tensile Strength	80 lbs [36.29 kg]
Flat Plate Crush	13 lbs/in [0.23 kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, Strand	0.056 in [1.42 mm]
Conductor Type	Stranded	
Dielectric	PE (F)	0.15 in [3.81 mm]
First Shield	Aluminum Tape	0.155 in [3.94 mm]
Second Shield	Tinned Copper Braid	0.178 in [4.52 mm]

Times Microwave LMR-240-UF Flexible Coax Cable Black TPE Jacket



LMR-240-UF

Construction Specifications

Description	Material and Plating	Diameter
Jacket	TPE, Black	0.24 in [6.1 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

Environmental Specification Notes:
Designed for indoor and outdoor use.

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

Plotted and Other Data

Notes:

Times Microwave LMR-240-UF Flexible Coax Cable Black TPE 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-240-UF Flexible Coax Cable Black TPE Jacket LMR-240-UF](#)

URL: <https://www.fairviewmicrowave.com/lmr240uf-flexible-coax-cable-pe-jacket-lmr-240-uf-p.aspx>

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LMR-240-UF CAD Drawing
 Times Microwave LMR-240-UF Flexible Coax Cable Black TPE Jacket

