

TC-400-SM-X DATA SHEET

SMA Male (Plug) Connector For LMR-400 Cable, Crimp/Solder

Times Microwave Systems Connector Specification

SMA male connector with crimp/solder attachment for LMR-400, part number TC-400-SM-X, from Fairview Microwave is in-stock and ships same day. This SMA male connector operates up to a maximum frequency of 6 GHz and offers excellent VSWR of 1.22:1.

Fairview's SMA male connector TC-400-SM-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	Тур	Max	Units
Frequency Range	DC		6	GHz
VSWR			1.22:1	
Operating Voltage (AC)			335	Vrms
DWV (DC)			500	Vdc
Inner Cond. DC Resistance	e		3	mOhms
Outer Cond. DC Resistance	e		2	mOhms
Insulation Resistance	5,000			MOhms



Configuration:

- SMA Male Connector
- 50 Ohms
- Straight Body Geometry
- LMR-400 Interface Type
- Crimp/Solder Attachment

Features:

- Operating Frequency of 6 GHz Max.
- Excellent VSWR of 1.22:1
- Gold Plated Brass Contact
- 50µ" Minimum contact plating

Applications:

- General Purpose Test
- Custom Cable Assemblies

Mechanical Specifications

Size Length Width/Dia. Height Weight

Mating Cycles Mating Torque 1.23 in [31.24 mm] 0.5 in [12.70 mm] 0.5 in [12.7 mm] 0.051 lbs [23.13 g]

500 Cycles

7 to 10 in-lbs [0.79 to 1.13 Nm]

Material Specifications

Description	Material	Plating
Contact	Brass	Gold 50µ" Minimum
Insulation	Teflon	
Body	Brass	Tri-Metal
Coupling Nut	Brass	Tri-Metal

Environmental Specifications

TemperatureOperating Range

-55 to +125 deg C

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678

Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





Humidity Shock Vibration MIL-STD-202, Method 106 MIL-STD-202, Method 213, Cond. I MIL-STD-202, Method 204, Cond. D

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

SMA Male (Plug) Connector For LMR-400 Cable, Crimp/Solder 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: SMA Male (Plug) Connector For LMR-400 Cable, Crimp/Solder TC-400-SM-X

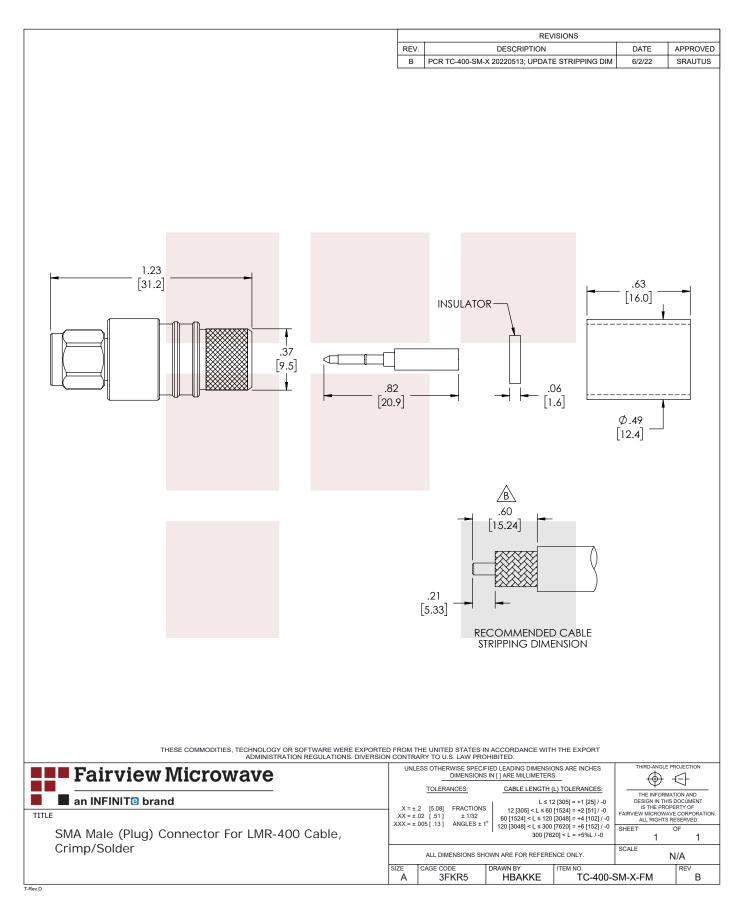
URL: https://www.fairviewmicrowave.com/sma-male-lmr-400-connector-tc-400-sm-x-p.aspx

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.

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TNC Male Connector Crimp/Solder Attachment for LMR-400 Cable

Times Microwave Systems Connector Specification

TNC male connector with crimp/solder attachment for LMR-400, part number TC-400-TM-X, from Fairview Microwave is in-stock and ships same day. This TNC male connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.3:1.

Fairview's TNC male connector TC-400-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

GHz
dB
Vrms
MOhms

Mechanical Specifications

Size

Length 1.897 in [48.18 mm] Width/Dia. 0.622 in [15.80 mm] Weight 0.0915 lbs [41.5 g] Mating Cycles 500 Cycles

Material Specifications

Description	Material	Plating
Contact	Brass	Gold 50 µinch
Body	Brass	Tri-Metal 80 µinch
Coupling Nut	Brass	Tri-Metal 80 µinch

Environmental Specifications

Temperature

Operating Range Shock

Vibration

-40 to +125 deg C MIL-STD 202G, Meth. 213, Cond.

G

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



Configuration:

- TNC Male Connector
- 50 Ohms
- Straight Body Geometry
- LMR-400 Interface Type
- Crimp/Solder Attachment

Features:

- Operating Frequency of 6 GHz Max.
- Good VSWR of 1.3:1
- · Gold Plated Brass Contact
- 50 µinch contact plating

Applications:

- General Purpose Test
- Custom Cable Assemblies

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Thermal Shock

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-400 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-400 Cable TC-400-TM-X

URL: https://www.fairviewmicrowave.com/tnc-male-lmr-400-connector-tc-400-tm-x-p.aspx

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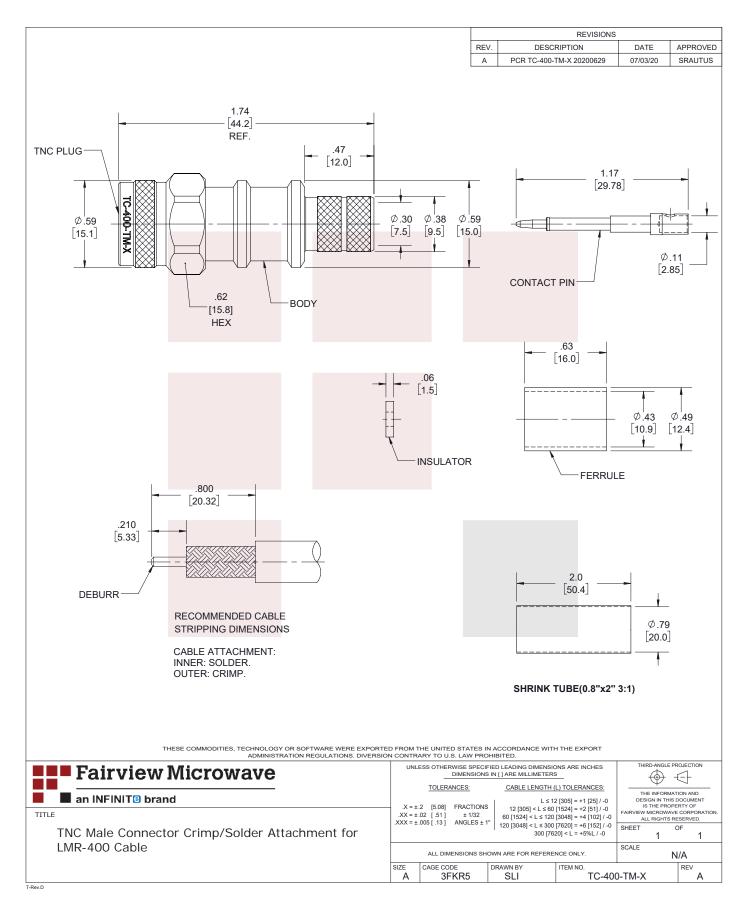
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REV 1.1 Page 2 of 3









Times Microwave LMR-400-FR Low Loss Flexible Coax Cable Black FRPE Jacket Fire Rated



LMR-400-FR



Times Microwave Systems Connector Specification

Configuration

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

Features

- · Max Operating Frequency of 8 GHz
- · Phase Velocity 84% VoP
- · Low Smoke, Zero Halogen FRPE Jacket

Applications

- · RF Test Systems
- · In-Building Riser Runs
- · Laboratory Applications

- · CMR Riser Rated Coax
- Max Operating Temperature +85°C
- · Min Install Bend Radius of 1 inches
- · Antenna Installs
- General Purpose RF Interconnect

Description

LMR-400-FR Fire Rated version of the 400 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-400-FR coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This low loss and CMR riser rated 50 Ohm coax cable LMR-400-FR is constructed with a 0.405 inch diameter and Black FRPE jacket.

LMR-400-FR flexible 50 Ohm coax cable with FRPE jacket is rated for a 8 GHz maximum operating frequency. This 50 Ohm 0.405 inch diameter and low loss fire rated coax cable is built with an aluminum double shield count and RF shielding of 90 dB. Times Microwave LMR-400-FR FRPE coax is constructed with Foam PE dielectric and a maximum operating temperature of 85 degrees C. Fairview Microwave's offering of LMR-400-FR coax cable provides specs for this wire on its RF coax cable LMR-400-FR datasheet.

LMR-400-FR cable is part of more than one million RF, microwave parts in stock at Fairview Microwave. This Times Microwave low loss flexible LMR-400-FR 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
Impedance		50		Ohms
Velocity of Propagation		84		%
Time Delay		1.2 [3.94]		ns/ft [ns/m]
Shielding Effectiveness	90			dB
Dielectric Withstanding Voltage (DC)			2,500	Vdc
Jacket Spark			8,000	Vrms
Inner Conductor DC Resistance			1.39	Ohms/1000ft

^{*} LMR™ is a trademark of Times Microwave Systems.



Times Microwave LMR-400-FR Low Loss Flexible Coax Cable Black FRPE Jacket Fire Rated



LMR-400-FR

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Outer Conductor DC Resistance			1.65	Ohms/1000ft
Nominal Capacitance		23.9 [78.41]		pF/ft [pF/m]
Nominal Inductance		0.06 [0.2]		uH/ft [uH/m]
Input Power (Peak)			16	kWatts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	50	150	220	450	900	MHz
Attenuation, Typ	0.9	1.5	1.9	2.7	3.9	dB/100ft
	2.95	4.92	6.23	8.86	12.8	dB/100m
Input Power (CW), Max	2,570	1,470	1,200	830	580	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	5.8	GHz
Attenuation, Typ	5.1	5.7	6	6.8	10.8	dB/100ft
	16.73	18.7	19.69	22.31	35.43	dB/100m
Input Power (CW), Max	440	400	370	330	210	Watts

Mechanical Specifications

Diameter Weight

Min. Bend Radius (Installation)

Min. Bend Radius (Repeated)

Bending Moment Tensile Strength Flat Plate Crush 0.405 in [10.29 mm] 0.081 lbs/ft [0.12 kg/m] 1 in [25.4 mm]

4 in [101.6 mm] 0.5 lbs-ft [0.68 N-m] 160 lbs [72.57 kg] 40 lbs/in [0.71 kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strand	0.108 in [2.74 mm]
Conductor Type	Solid	
Dielectric	Foam PE	0.285 in [7.24 mm]
First Shield	Aluminum Tape	
Second Shield	Tinned Copper	
Jacket	FRPE, Black	0.405 in [10.29 mm]



Times Microwave LMR-400-FR Low Loss Flexible Coax Cable Black FRPE Jacket Fire Rated



LMR-400-FR

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:

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For additional information on this product, please click the following link: Times Microwave LMR-400-FR Low Loss Flexible Coax Cable Black FRPE Jacket Fire Rated LMR-400-FR

URL: https://www.fairviewmicrowave.com/lmr-400-fr-low-loss-flexible-coax-cable-frpe-jacket-lmr-400-fr-p.aspx

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