



## TNC Male Connector Crimp/Solder Attachment for LMR-400, PE-C400

### RF Connectors Technical Data Sheet


**TIMES**  
An Amphenol Company

**TC-400-TM-X**

#### Times Microwave Systems Connector Specification

##### Configuration

- TNC Male Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: LMR-400, PE-C400

##### Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.3:1
- Gold Plated Brass Contact
- 50  $\mu$ inch contact plating

##### Applications

- General Purpose Test
- Custom Cable Assemblies

##### Description

Pasternack's TC-400-TM-X TNC male connector with crimp/solder attachment for LMR-400 and PE-C400 is part of our full line of RF components available for same-day shipping. Our TNC male connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.3:1.

Our TNC male connector TC-400-TM-X datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

##### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.3:1	
Insertion Loss			0.25	dB
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Insulation Resistance	5,000			MOhms

##### Mechanical Specifications

###### Size

Length 1.897 in [48.18 mm]

Width/Dia. 0.622 in [15.80 mm]

###### Weight

0.091 lbs [41.28 g]

###### Mating Cycles

500 Cycles

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male Connector Crimp/Solder Attachment for LMR-400, PE-C400 TC-400-TM-X](#)

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#### Material Specifications

Description	Material	Plating
Contact	Brass	Gold 50 $\mu$ inch
Body	Brass	Tri-Metal 80 $\mu$ inch
Coupling Nut	Brass	Tri-Metal 80 $\mu$ inch

#### Environmental Specifications

##### Temperature

-40 to +125 deg C

##### Operating Range

MIL-STD 202G, Meth. 213, Cond. G

##### Shock

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

##### Vibration

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

##### Thermal Shock

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

#### Plotted and Other Data

Notes:

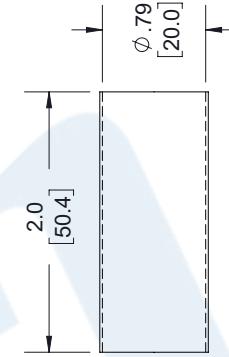
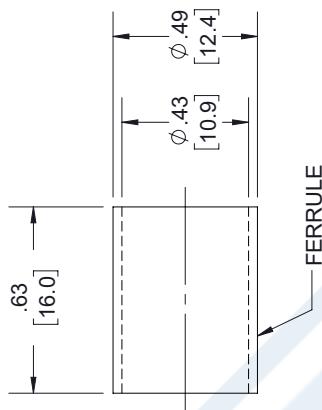
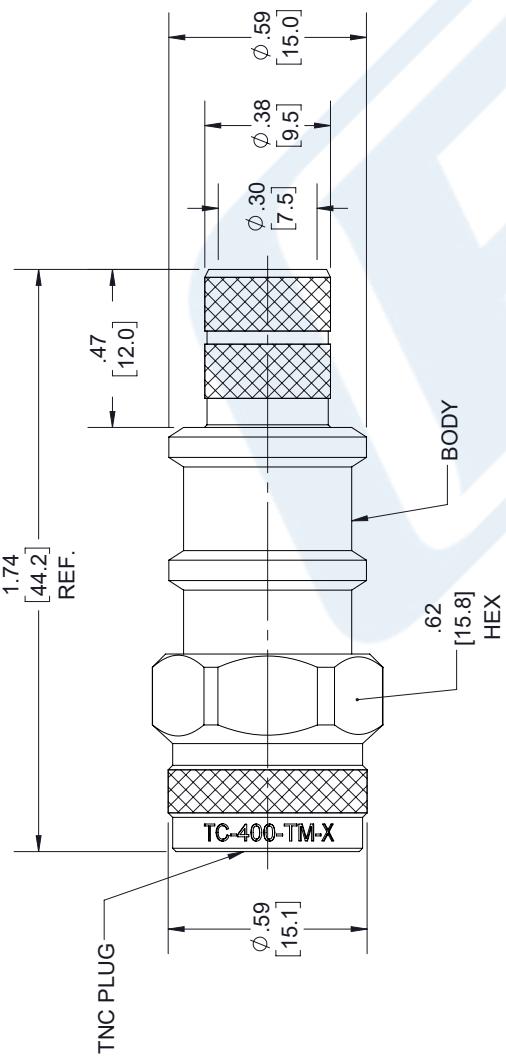
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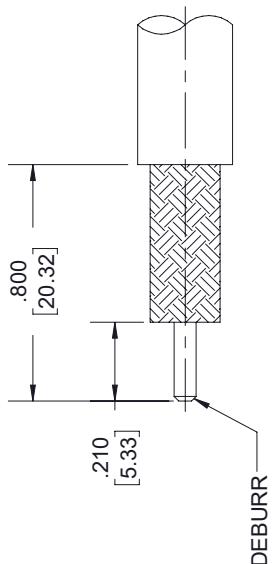
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REVISIONS				
REV.	DESCRIPTION	DATE	APPROVED	
A	PCR TC-400-TM-X 20200629	07/03/20		SRAUTUS



**SHRINK TUBE(0.8" x 2" 3:1)**



<b>PASTERNACK</b> an INFINITE brand		THIRD ANGLE PROJECTION
Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920   1.866.727.8376 Fax: 1.949.261.7451 Website: www.pasternack.com E-mail: sales@pasternack.com		THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNACK CORPORATION. ALL RIGHTS RESERVED.
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UNLESS OTHERWISE SPECIFIED  
 LEADING DIMENSIONS ARE INCHES  
 DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

X =  $\pm .2$  [5.08] FRACTIONS  
 .XX =  $\pm .02$  [.51]  $\pm 1/32$   
 XXX =  $\pm .005$  [.13] ANGLES  $\pm 1^\circ$   
 CABLE LENGTH (L) TOLERANCES:  
 L  $\leq 12$  [305] =  $+1 [25] / -0$   
 12 [305]  $< L \leq 60$  [1524] =  $+2 [51] / -0$   
 60 [1524]  $< L \leq 120$  [3048] =  $+4 [102] / -0$   
 120 [3048]  $< L \leq 300$  [7620] =  $+6 [152] / -0$   
 300 [7620]  $< L = +5\% / -0$

ALL DIMENSIONS SHOWN  
 ARE FOR REFERENCE ONLY.

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An Amphenol Company

**TC-400-TM-X**

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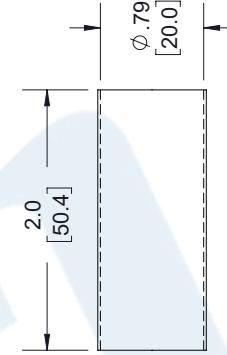
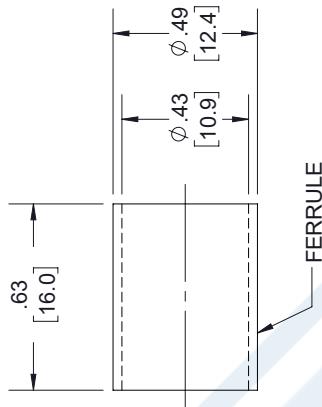
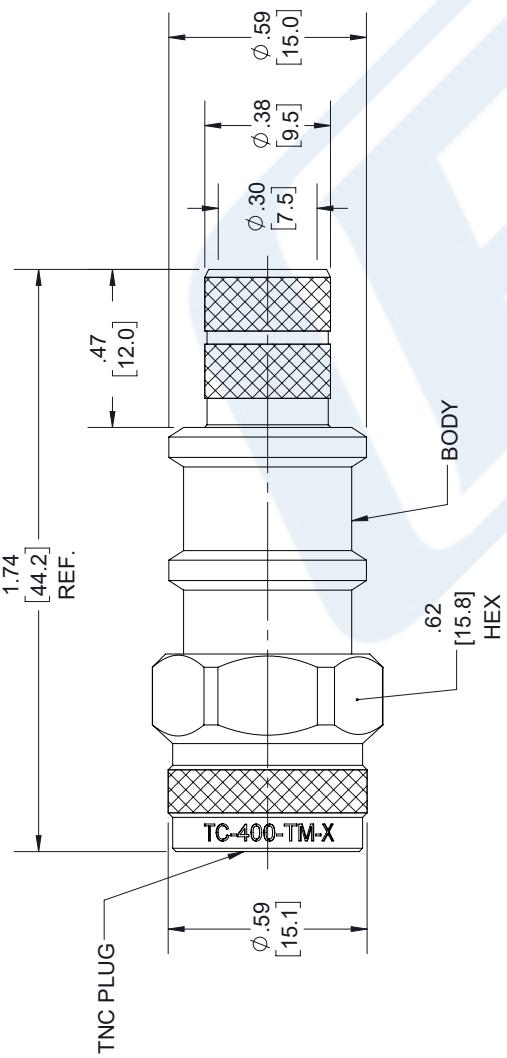
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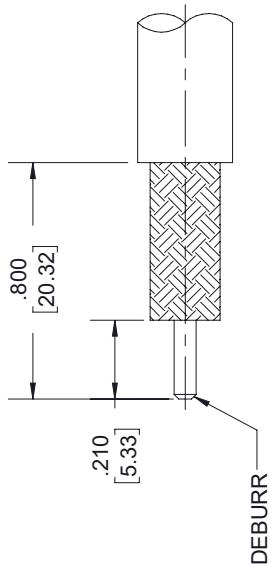
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## LMR-400-FR Fire Rated version of the 400 series Low Loss Coax

### RF Cables Technical Data Sheet



LMR-400-FR

### Times Microwave Systems Coax Cable Specification

#### Configuration

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

#### Features

- CMR Riser Rated Coax
- Non-Halogen, Low Smoke FRPE Jacket
- Max Operating Frequency of 5.8 GHz
- Phase Velocity 84% VoP
- Max Operating Temperature +85°C
- Min Install Bend Radius of 1 inches

#### Applications

- In-Building Riser Runs
- Short Antenna Installs
- RF Test Systems
- General Purpose RF Interconnect
- Laboratory Applications

#### 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 Pasternack of radio frequency coaxial cable types specifically stocked to be ready for same-day shipment. Pasternack 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 5.8 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. Pasternack'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 Pasternack. This Times Microwave low loss flexible LMR-400-FR coax cable is ready to buy and can be shipped worldwide. Pasternack 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	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	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

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## LMR-400-FR Fire Rated version of the 400 series Low Loss Coax

### RF Cables Technical Data Sheet


**LMR-400-FR**

Jacket Spark	8,000	Vrms
Inner Conductor DC Resistance	1.39	Ohms/1000ft
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	0.405 in [10.29 mm]
Weight	0.068 lbs/ft [0.1 Kg/m]
Min. Bend Radius (Installation)	1 in [25.4 mm]
Min. Bend Radius (Repeated)	4 in [101.6 mm]
Bending Moment	0.5 lbs-ft [0.68 N-m]
Tensile Strength	160 lbs [72.57 kg]
Flat Plate Crush	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]

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## LMR-400-FR Fire Rated version of the 400 series Low Loss Coax

### RF Cables Technical Data Sheet


**LMR-400-FR**

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]

#### Environmental Specifications

##### Temperature

Operating Range  
Installation Range  
Storage Range

-40 to +85 deg C  
-40 to +85 deg C  
-70 to +85 deg C

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

#### Plotted and Other Data

Notes:

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URL: <https://www.pasternack.com/low-loss-flexible-lmr-400-fr-frpe-jacket-aluminum-tape-over-tinned-copper-outer-conductor-double-shielded-lmr-400-fr-p.aspx>

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