



TNC Male Connector Crimp/Solder Attachment for PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF, 0.400 inch

RF Connectors Technical Data Sheet

PE44293

Configuration

- TNC Male Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF, .400 inch

Features

- Max. Operating Frequency 11 GHz
- Silver Plated Brass Contact
- Contact plating according to ASTM-B700

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE44293 TNC male connector with crimp/solder attachment for PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF and .400 inch 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 11 GHz.

Our TNC male connector PE44293 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		11	GHz
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,500	Vrms

Mechanical Specifications

Size

Length	1.68 in [42.67 mm]
Width/Dia.	0.6 in [15.24 mm]
Weight	0.067 lbs [30.39 g]

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 PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF, 0.400 inch PE44293](#)



TNC Male Connector Crimp/Solder Attachment for PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF, 0.400 inch

RF Connectors Technical Data Sheet

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Material Specifications

Description	Material	Plating
Contact	Brass	Silver ASTM-B700
Insulation	PTFE	
Body	Brass	Nickel ASTM-B689
Coupling Nut	Brass	Nickel ASTM-B689

Environmental Specifications

Temperature

Operating Range

-65 to +165 deg C

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

Plotted and Other Data

Notes:

TNC Male Connector Crimp/Solder Attachment for PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF, 0.400 inch from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

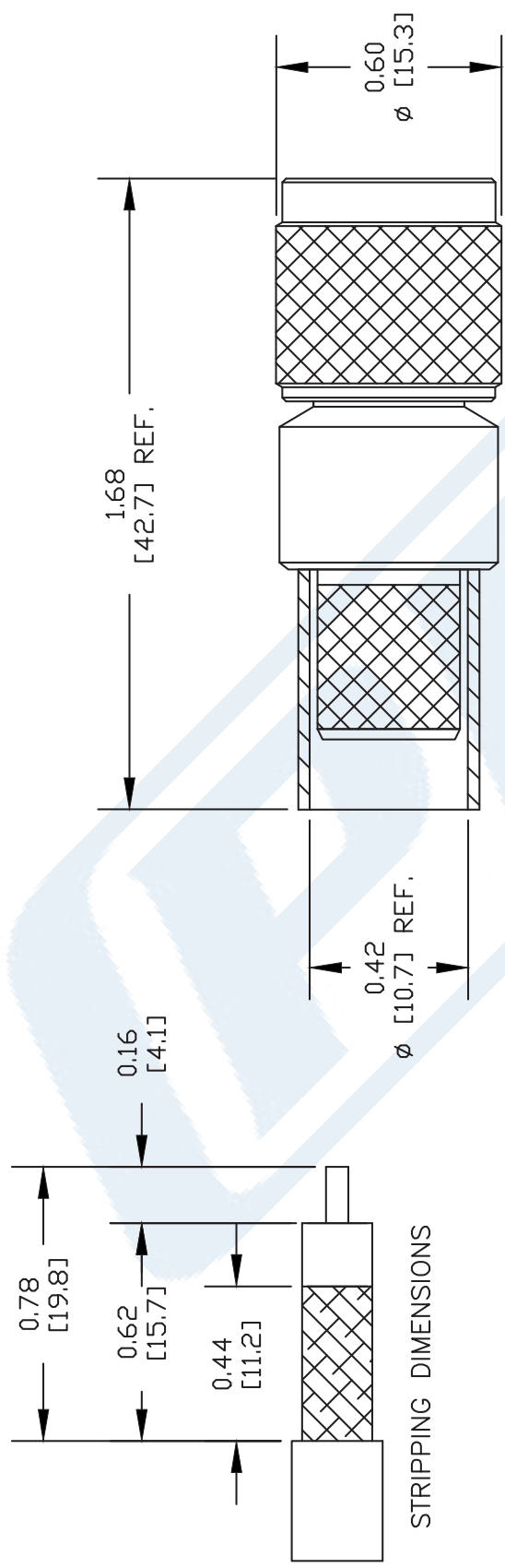
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URL: <https://www.pasternack.com/tnc-male-standard-pe-b400-pe-b405-pe-c400-connector-pe44293-p.aspx>

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. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE44293 CAD Drawing

TNC Male Connector Crimp/Solder Attachment for PE-C400, PE-B400,
PE-B405, LMR-400, LMR-400-DB, LMR-400-UF, 0.400 inch



CRIMP SIZE REQUIRED

CONTACT: SOLDER
FERRULE: .429" HEX CRIMP TOOL



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DWG TITLE

PE44293

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

REV. C

FSCM NO. 53919

CAD FILE 032411-C

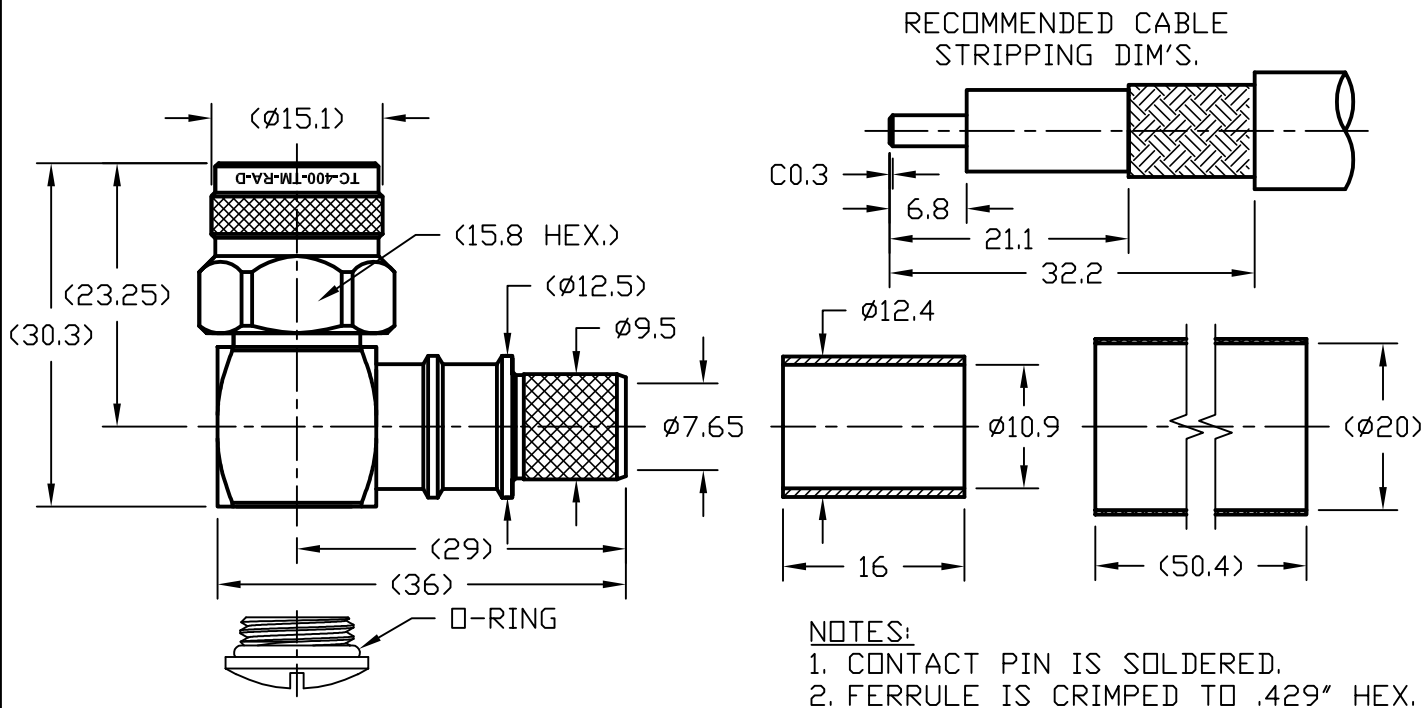
SCALE N/A

SIZE A

127

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SYM	REVISION DESCRIPTION	DFTM	DATE	APPD	DATE
A	RELEASED FOR PRODUCTION	K.A.M.	6/3/11	J.D.B.	6/3/11
B	CHANGED PER CDC #34607/36250	D.J.H.	9/24/12	J.D.B.	9/25/12



ALL PARTS SATISFIED ROHS REQUIREMENTS

MATERIALS AND PLATING		UNIT: MICRO-INCHES
BODY/SHELL	BRASS C3604	ALBALOY 80 MIN/COPPER
CONTACT PIN	BRASS C3604	GOLD 50 MIN/NICKEL/COPPER
INSULATOR	TEFLON MIL-P-19468	N/A
GASKET	SILICONE	RED
FERRULE	BRASS	ALBALOY 80 MIN/COPPER
SHRINK TUBING	PO	BLACK

ELECTRICAL CHARACTERISTICS	
Impedance	50 Ω
Frequency range	0~11GHz
Voltage rating	500V(rms)
Dielectric withstanding voltage	1000V
Contact resistance	Center contact $\leq 3 \text{ m}\Omega$
	Outer contact $\leq 2 \text{ m}\Omega$
Insulation resistance	$\geq 5000 \text{ M}\Omega$
Insertion loss	According to the cable
RF-leakage	N/A
VSWR	$\leq 1.35 \text{ MAX@0-6GHz}$

MECHANICAL CHARACTERISTICS	
Force to engage and disengage	N/A
Center contact retention force	6 lbs Min
Coupling torque	15 in-lbs Min
Coupling nut retention force	60 lbs Min
Durability	≥ 500 cycles

ENVIRONMENTAL CHARACTERISTICS	
Temperature range	-55°C - +125°C
Thermal Shock	MIL-STD-202, Method 107, Cond B
Vibration	MIL-STD-202, Method 204, Cond B
Shock	MIL-STD-202, Method 213, Cond I
Climatic Class	IEC 60068 55/155/56

MATL:		UNLESS OTHERWISE SPECIFIED		DFTM. K. A. M.	TIMES MICROWAVE SYSTEMS				
		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 ± 0.2 ANGLES ± 1° FRACTIONS ± N/A		DATE 6/3/11					
USED ON: 0-4				CHKD. J. D. B.	TC-400-TM-RA-D 90° TNC MALE FOR LMR400 CABLE				
				DATE 6/3/11					
SCALE: N/A		DWG. SIZE A		DO NOT SCALE DRAWING	CODE IDENT 68999	DATE 6/3/11	SHEET 1 of 1	SD3190-2671	REV B

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



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		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
Outer Conductor DC Resistance			1.65	Ohms/1000ft
Nominal Capacitance		23.9 [78.41]		pF/ft [pF/m]

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



LMR-400-FR

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
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	0.081 lbs/ft [0.12 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]
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	-40 to +85 deg C
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LMR-400-FR Fire Rated version of the 400 series Low Loss Coax



LMR-400-FR

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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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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LMR-400-FR CAD Drawing

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

