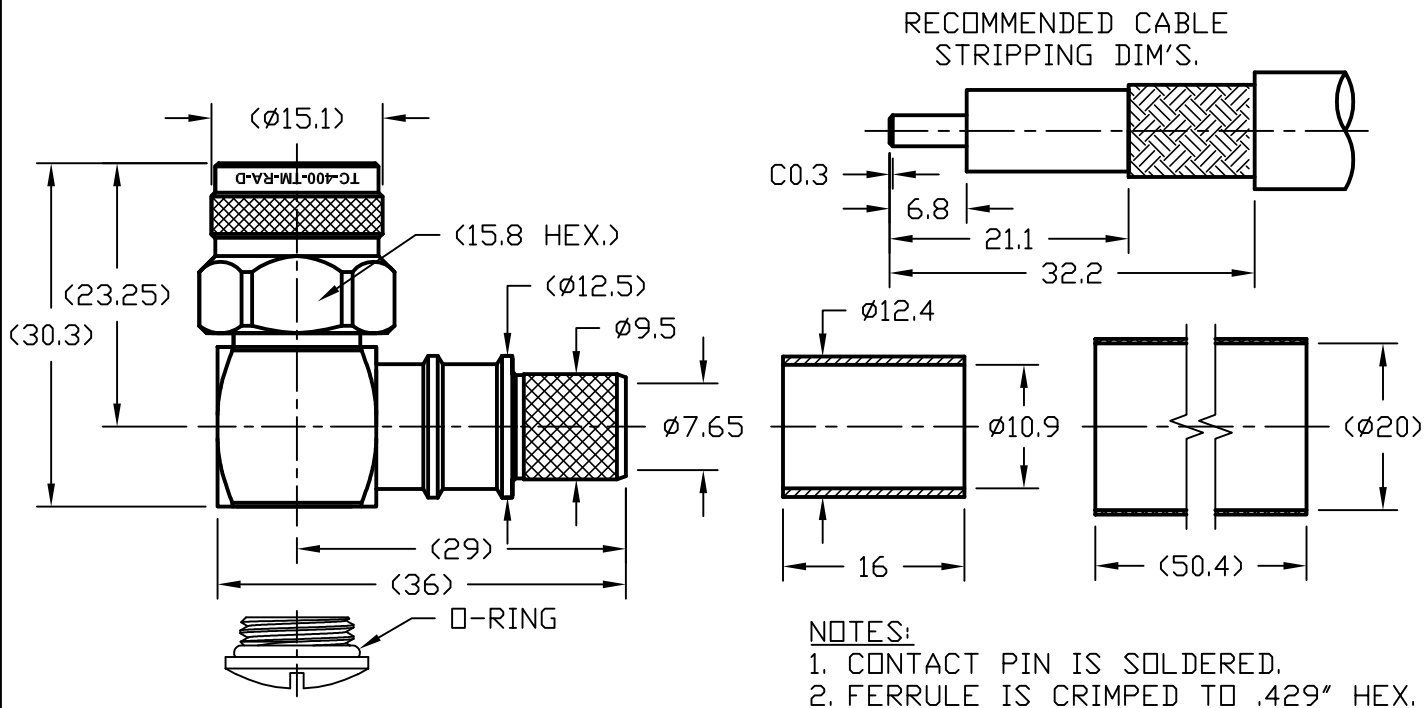


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SYM	REVISION DESCRIPTION	DFTM	DATE	APPD	DATE
A	RELEASED FOR PRODUCTION	K.A.M.	6/3/11	J.D.B.	6/3/11
B	CHANGED PER CDC #34607/36250	D.J.H.	9/24/12	J.D.B.	9/25/12



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	$\leq 1.35 \text{ MAX@0-6GHz}$

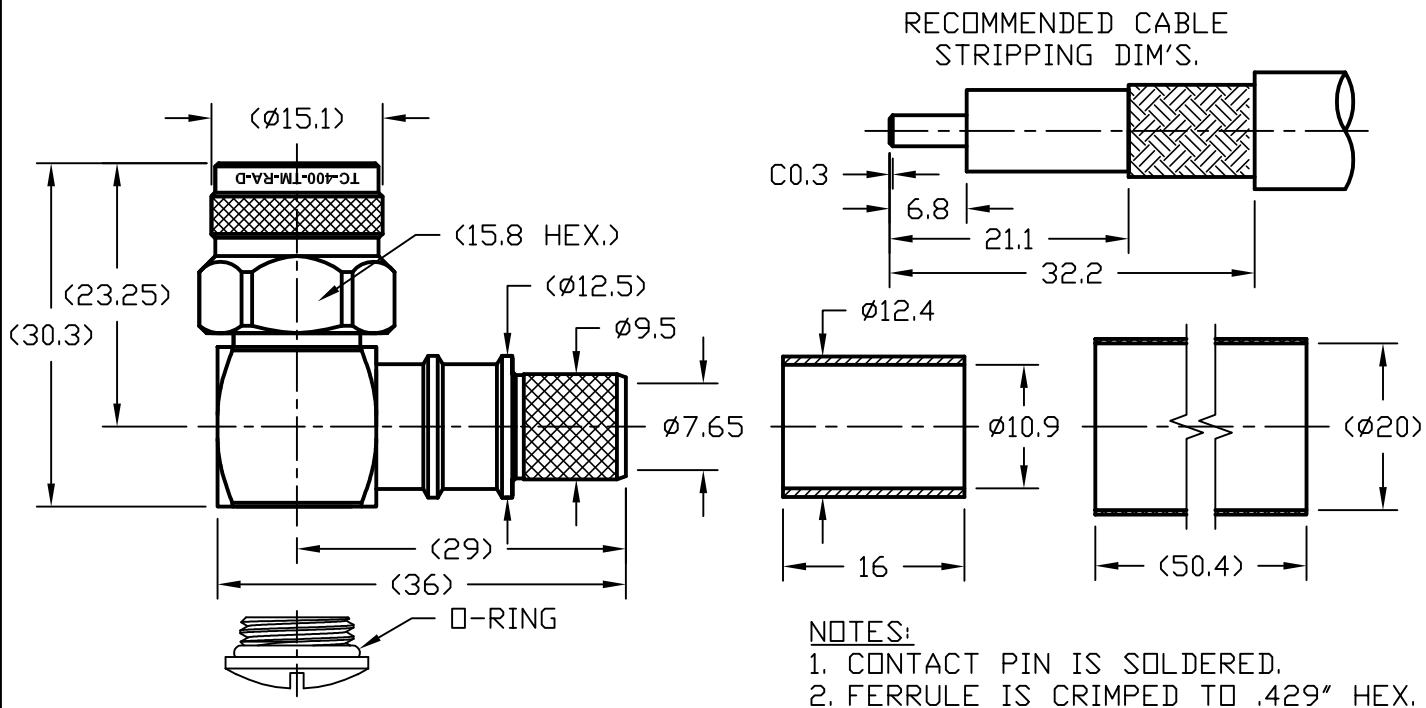
MECHANICAL CHARACTERISTICS	
Force to engage and disengage	N/A
Center contact retention force	6 lbs Min
Coupling torque	15 in-lbs Min
Coupling nut retention force	60 lbs Min
Durability	≥ 500 cycles

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 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 $\pm 1^\circ$ FRACTIONS $\pm \text{N/A}$		DFTM. K. A. M.	TIMES MICROWAVE SYSTEMS	
			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		APPD. J. D. B.	1 of 1 SD3190-2671	
			DATE 6/3/11		
DO NOT SCALE DRAWING		CODE IDENT 68999	DATE 6/3/11	REV B	

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FERRULE	BRASS	ALBALOY 80 MIN/COPPER
SHRINK TUBING	PO	BLACK

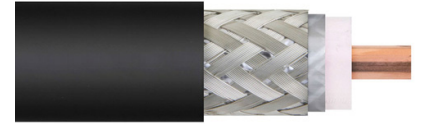
ELECTRICAL CHARACTERISTICS	
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			DATE 6/3/11		
USED ON: 0-4			CHKD. J. D. B.	TC-400-TM-RA-D 90° TNC MALE FOR LMR400 CABLE	
			DATE 6/3/11		
SCALE: N/A	DWG. SIZE A		APPD. J. D. B.	1 of 1 SD3190-2671	
			DATE 6/3/11		
DO NOT SCALE DRAWING		CODE IDENT 68999			B

Low Loss Flexible LMR-400-DB Outdoor/Watertight Rated Coax Cable Double Shielded with Black PE Jacket



LMR-400-DB



Times Microwave Systems Connector Specification

Configuration

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

Features

- Max Operating Frequency of 8 GHz
- Low Loss Cable
- Phase Velocity 85% VoP

Applications

- Laboratory Applications
- General Purpose RF Interconnect

Description

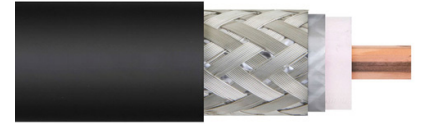
LMR-400-DB part number from Pasternack is a LMR-400-DB coax cable that is flexible. Pasternack LMR-400-DB flexible coax cable is 50 Ohm and has a PE (F) dielectric. Our LMR-400-DB coax is constructed with a 0.405 jacket made of PE. LMR-400-DB coax has a shield count of 2, a RF shielding of 90 dB and the maximum frequency for this Pasternack cable is 8 GHz. LMR-400-DB coax cable has an attenuation at 1 GHz of 4.15 dB.

Pasternack LMR-400-DB coax cables are part of over 40,000 RF, microwave and millimeter wave components. LMR-400-DB cables and our other RF parts are available for same day shipping worldwide. Custom RF cable assemblies using LMR-400-DB or other coax can be built and shipped same day as well.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
Cutoff Frequency		16.2		GHz
Impedance		50		Ohms
Velocity of Propagation		85		%
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]
Nominal Inductance		0.06 [0.2]		uH/ft [uH/m]
Input Power (Peak)			16	kWatts

Low Loss Flexible LMR-400-DB Outdoor/Watertight Rated Coax Cable Double Shielded with Black PE Jacket



LMR-400-DB

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	0.07 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 Clad Aluminum, 1 Strand	0.108 in [2.74 mm]
Conductor Type	Solid	
Dielectric	PE (F)	0.285 in [7.24 mm]
First Shield	Aluminum Tape	
Second Shield	Tinned Copper Braid	
Jacket	PE, Black	0.405 in [10.29 mm]

Environmental Specifications

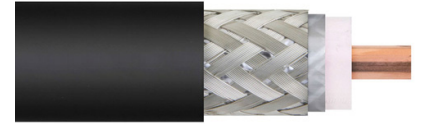
Temperature	
Operating Range	-40 to 85 deg C
Storage Range	-70 to 85 deg C

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

Plotted and Other Data

Notes:

Low Loss Flexible LMR-400-DB Outdoor/Watertight Rated Coax Cable Double Shielded with Black PE Jacket



LMR-400-DB

Low Loss Flexible LMR-400-DB Outdoor/Watertight Rated Coax Cable Double Shielded with Black PE Jacket 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss Flexible LMR-400-DB Outdoor/Watertight Rated Coax Cable Double Shielded with Black PE Jacket LMR-400-DB](#)

URL: <https://www.pasternack.com/50-ohm-low-loss-flexible-lmr400db-pe-jacket-double-shielded-black-lmr-400-db-p.aspx>

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

Low Loss Flexible LMR-400-DB Outdoor/Watertight Rated Coax Cable Double Shielded with Black PE Jacket

