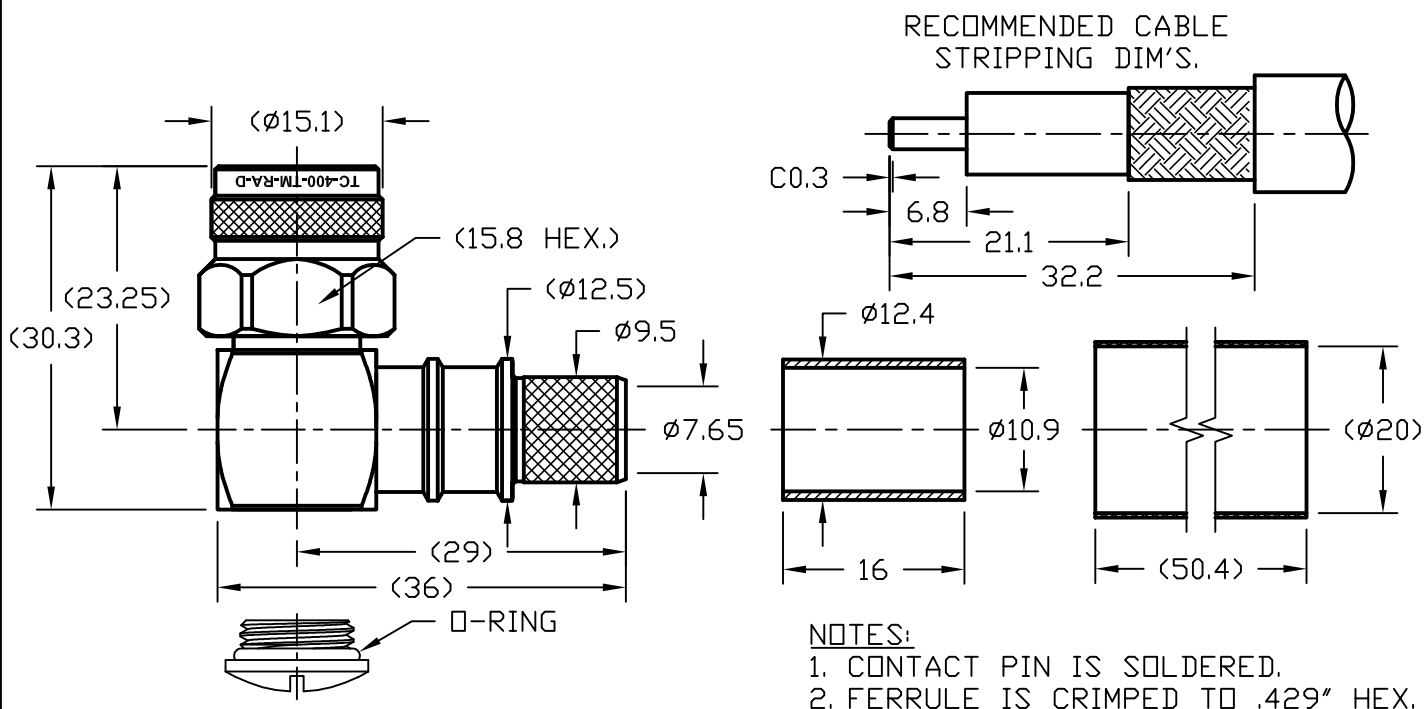


NOTICE OF PROPRIETARY RIGHTS THIS DOCUMENT CONTAINS CONFIDENTIAL TECHNICAL DATA, INCLUDING TRADE SECRETS, PROPRIETARY TO TIMES MICROWAVE SYSTEMS. DISCLOSURE OF THIS DATA IS EXPRESSLY CONDITIONED UPON YOUR ASSENT THAT ITS USE IS LIMITED TO USE WITHIN YOUR COMPANY ONLY. ANY OTHER USE IS STRICTLY PROHIBITED WITHOUT THE PRIOR WRITTEN CONSENT OF TIMES MICROWAVE SYSTEMS.

SYM	REVISION DESCRIPTION	DFTM	DATE	APPD	DATE
A	RELEASED FOR PRODUCTION	<i>K.A.M.</i>	6/3/11	<i>J.D.B.</i>	6/3/11
B	CHANGED PER CDC #34607/36250	<i>D.J.H.</i>	9/24/12	<i>J.D.B.</i>	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	$\leq 1.35 \text{ MAX}@0-6\text{GHz}$

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

MATERIAL:		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						
CHKD. J. D. B.					DATE 6/3/11						
APPD. J. D. B.											
USED ON: 0-4										TC-400-TM-RA-D 90° TNC MALE FOR LMR400 CABLE	
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	



N Male Connector Clamp/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

PE4133

Configuration

- N 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

- Gold Plated Brass Contact
- Contact plating according to ASTM-B488

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4133 type N male connector with clamp/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 type N male connector PE4133 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
Operating Voltage (AC)			1,000	Vrms
Dielectric Withstanding Voltage (AC)			2,500	Vrms

Mechanical Specifications

Size	
Length	1.5 in [38.1 mm]
Width/Dia.	0.8 in [20.32 mm]
Weight	0.112 lbs [50.8 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Connector Clamp/Solder Attachment for PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF, 0.400 inch PE4133](#)



N Male Connector Clamp/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

PE4133

Material Specifications

Description	Material	Plating
Contact	Brass	Gold ASTM-B488
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:

N Male Connector Clamp/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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Connector Clamp/Solder Attachment for PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF, 0.400 inch PE4133](#)

URL: <https://www.pasternack.com/n-male-standard-pe-b400-pe-b405-pe-c400-connector-pe4133-p.aspx>

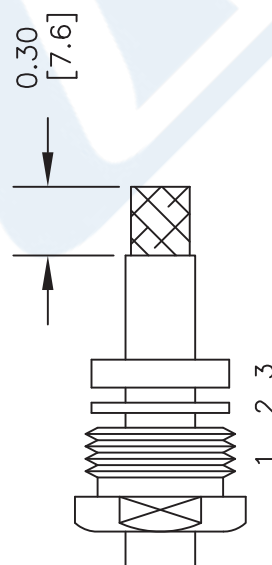
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PE4133 CAD Drawing

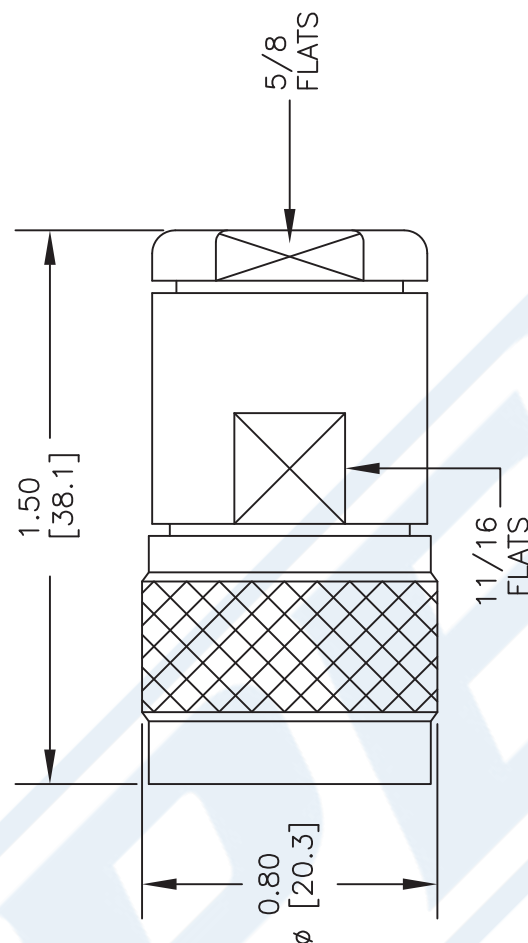
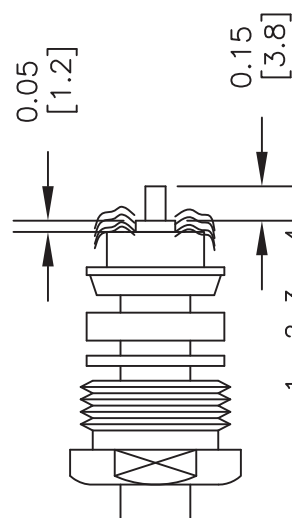
N Male Connector Clamp/Solder Attachment for PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF, 0.400 inch

ASSEMBLY PROCEDURES

1. SLIDE CLAMP NUT (1), WASHER (2) & GASKET (3) OVER CABLE. STRIP CABLE AS SHOWN. DO NOT NICK BRAID WHILE CUTTING JACKET. TAPER END OF BRAID TO PERMIT ASSEMBLY OF BRAID CLAMP (4). SLIDE BRAID CLAMP (4) OVER BRAID & SEAT AGAINST JACKET.



2. FORM BRAID OVER CLAMP NUT (4). TRIM BRAID BACK TO SHOULDER. CUT DIELECTRIC & CENTER CONDUCTOR TO DIMENSION SHOWN. DO NOT NICK CENTER CONDUCTOR. SOLDER CONTACT TO CENTER CONDUCTOR. REMOVE EXCESS SOLDER. DO NOT OVER HEAT DIELECTRIC. INSERT CABLE ASSEMBLY INTO BODY & TIGHTEN.



STANDARD TOLERANCES	
.X	±0.2
.XX	±0.1
.XXX	±0.05

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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].

DWG TITLE

PE4133

PE PASTERNAK®
THE ENGINEER'S RF SOURCE

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Phone: (949) 261-1920 | Fax: (949) 261-7451
Website: www.pasternack.com | E-Mail: sales@pasternack.com

CAGE CODE 53919

CAD FILE 090111

SCALE N/A

SIZE A

2231

Low Loss Flexible LMR-400-UF Indoor/Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket



LMR-400-UF



Times Microwave Systems Connector Specification

Configuration

- Low Loss, Indoor/Outdoor 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-UF part number from Pasternack is a LMR-400-UF coax cable that is flexible. Pasternack LMR-400-UF flexible coax cable is 50 Ohm and has a PE (F) dielectric. Our LMR-400-UF coax is constructed with a 0.405 jacket made of TPE. LMR-400-UF 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-UF coax cable has an attenuation at 1 GHz of 5 dB.

Pasternack LMR-400-UF coax cables are part of over 40,000 RF, microwave and millimeter wave components. LMR-400-UF cables and our other RF parts are available for same day shipping worldwide. Custom RF cable assemblies using LMR-400-UF 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			1.07	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-UF Indoor/Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket



LMR-400-UF

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	50	150	220	450	900	MHz
Attenuation, Typ	1.1	1.8	2.2	3.3	4.7	dB/100ft
	3.61	5.91	7.22	10.83	15.42	dB/100m
Input Power (CW), Max	2,140	1,220	1,000	690	480	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	8	GHz
Attenuation, Typ	6.2	6.8	7.2	8.1	13	dB/100ft
	20.34	22.31	23.62	26.57	42.65	dB/100m
Input Power (CW), Max	360	330	310	280	170	Watts

Mechanical Specifications

Diameter	0.405 in [10.29 mm]
Weight	0.087 lbs/ft [0.13 kg/m]
Min. Bend Radius (Installation)	1 in [25.4 mm]
Min. Bend Radius (Repeated)	4 in [101.6 mm]
Bending Moment	0.38 lbs-ft [0.52 N-m]
Tensile Strength	160 lbs [72.57 kg]
Flat Plate Crush	20 lbs/in [0.36 kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, Strand	0.108 in [2.74 mm]
Conductor Type	Stranded	
Dielectric	PE (F)	0.285 in [7.24 mm]
First Shield	Aluminum Tape	
Second Shield	Tinned Copper Braid	
Jacket	TPE, 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-UF Indoor/Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket



LMR-400-UF

Low Loss Flexible LMR-400-UF Indoor/Outdoor Rated Coax Cable Double Shielded with Black TPE 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-UF Indoor/Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket LMR-400-UF](https://www.pasternack.com/50-ohm-low-loss-flexible-lmr400uf-tpe-jacket-double-shielded-lmr-400-uf-p.aspx)

URL: <https://www.pasternack.com/50-ohm-low-loss-flexible-lmr400uf-tpe-jacket-double-shielded-lmr-400-uf-p.aspx>

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Low Loss Flexible LMR-400-UF Indoor/Outdoor Rated Coax Cable Double Shielded with Black TPE Jacket

