

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



RF Connectors Technical Data Sheet

PE4550

Configuration

- N Male Connector
- MIL-STD-348A
- •50 Ohms
- Straight Body Geometry

Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.3:1

- PE-B400, PE-B405, PE-C400, LMR-400, .400 inch Interface Type
- Crimp/Solder Attachment
- Silver Plated Brass Contact
- 70 µin minimum contact plating

Applications

• General Purpose Test

Custom Cable Assemblies

Description

Pasternack's PE4550 type N male connector with crimp/solder attachment for PE-B400, PE-B405, PE-C400, LMR-400 and .400 inch is part of our full line of RF components available for same-day shipping. Our type N male connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.3:1.

Our type N male connector PE4550 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	
Operating Voltage (AC)			600	Vrms

Mechanical Specifications

Size

 Length
 1.505 in [38.23 mm]

 Width/Dia.
 0.827 in [21.01 mm]

 Weight
 0.072 lbs [32.66 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 Crimp/Solder Attachment for PE-B400, PE-B405, PE-C400, LMR-400, 0.400 inch PE4550

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com



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



RF Connectors Technical Data Sheet

PE4550

Material Specifications

Material	Plating
Brass	Silver 70 µin minimum
PTFE	
Brass	Nickel 100 μin minimum
Brass	Nickel 100 μin minimum
Brass	Nickel
	Brass PTFE Brass Brass

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 Crimp/Solder Attachment for PE-B400, PE-B405, PE-C400, LMR-400, 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 Crimp/Solder Attachment for PE-B400, PE-B405, PE-C400, LMR-400, 0.400 inch PE4550

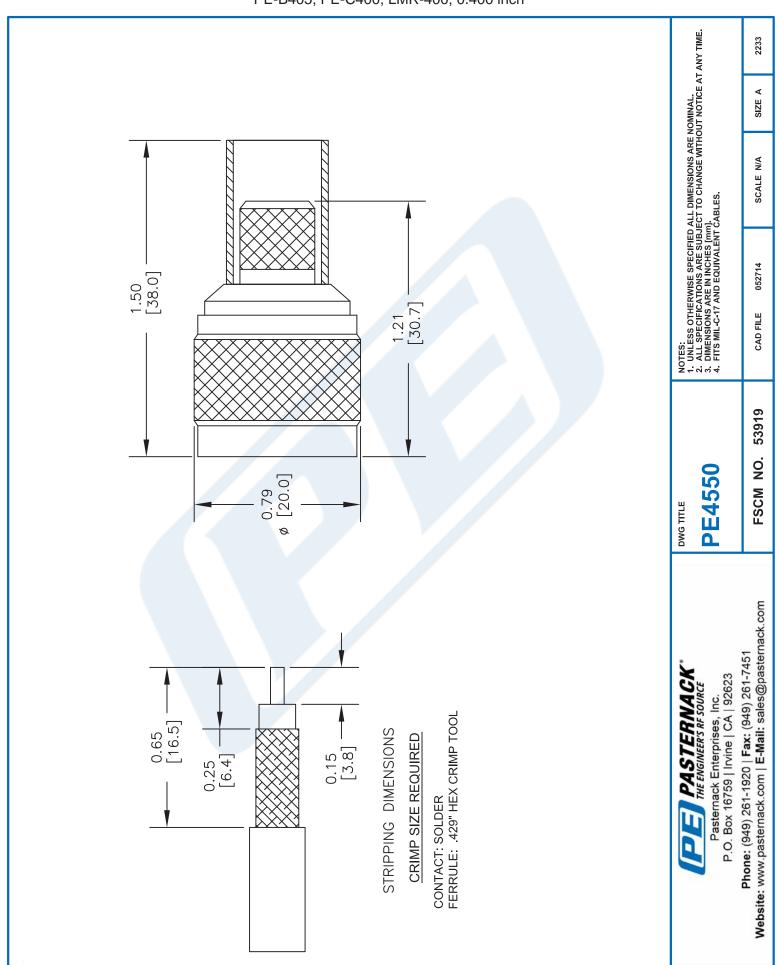
URL: https://www.pasternack.com/n-male-standard-pe-b400-pe-b405-pe-c400-connector-pe4550-p.aspx

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.

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

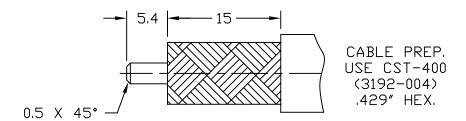
PE4550 CAD Drawing

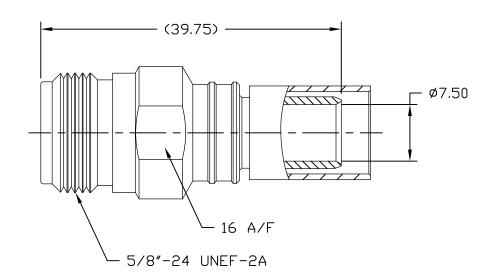
N Male Connector Crimp/Solder Attachment for PE-B400, PE-B405, PE-C400, LMR-400, 0.400 inch



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.

MYZ	REVISI	ON DESC	RIPTION	DFTM	DFTM DATE		DATE
Α	RELEASED	FOR	PRODUCTION	D.J.H.	12/11/12	J.D.B.	12/12/12





Reference Standard IEC60169-16

I. Electric Performance

Nominal Impedance(Ω): Frequency Range: DC-6GHz VSWR: $\leq 1.3(0-6GHz)$

Insert Loss(dB): ≤ 0.10 Insulation resistance(M Ω) >5000 Proof Voltage(V) 1500

Conductor resistance(m Ω) outer conductor < 0.4

inner conductor < 0.8

II. Mechanical Performance

400N Tensile force(cable-connect) Torsion(cable-connect) 2N.m III. Material and plating

Component Material Plating $\overline{Au} > 1.27 \mu m$ Inner conductor Spring Copper Outer conductor Brass Copper-tin-zinc> 2µm **PTFE**

Insulator

IV. Environment -55℃~+155℃ Temp. range

Weather standard IEC 60068 55 / 155/ 56

Thermal shock US MIL-STD 202, Meth. 107, Cond. B Vibration US MIL-STD 202, Meth. 204, Cond. B Shock US MIL-STD 202, Meth. 213, Cond. I

ROHS Compliant

V. Assembly: inner conductor soldered and outer conductor crimped

MATL:	UNLESS OTHERWISE SPECIFIED	J ^{detm.} D.J.H.	TIMES MICDOUAVE SYSTEMS
1	ALL DIMENSIONS ARE IN mm MACHINED SURFACES FINISHN/A RMS MAX.	DATE 12/11/12	TIMES MICROWAVE SYSTEMS
	REMOVE ALL BURRS N/A MAX, BREAK	CHKD. J. D. B.	TC-400-NF-X
USED DN: O-1	TOLERANCES ON DECIMALS	DATE 12/12/12	11
	ANGLES ± 1° FRACTIONS ± N/A	APPD. J. D. B.	SOLDER/CRIMP/NO BRAID TRIM
SCALE: N/A DWG. A	DO NOT SCALE DRAWING CODE 68999	DATE 12/12/12	[[] 1 of 1 SD3190-2815 [[] A]



LMR®-400 Flexible Low Loss Communications Coax

Ideal for...

- Drop-in replacement for RG-8/9913 Air-Dielectric type Cable
- Jumper Assemblies in Wireless Communications Systems
- Short Antenna Feeder runs
- Any application (e.g. WLL, GPS, LMR, WLAN, WISP, WiMax, SCADA, Mobile Antennas) requiring an easily routed, low loss RF cable
- LMR* standard is a UV Resistant Polyethylene jacketed cable designed for 20-year service outdoor use. The bending and handling characteristics are significantly better than air-dielectric and corrugated hard-line cables.
- LMR°-DB is identical to standard LMR plus has the advantage of being watertight. The addition of waterproofing compound in and around the foil/braid insures continuous reliable service should the jacket be inadvertently damaged during installation or in the future.
- LMR*- FR is a non-halogen (non-toxic), low smoke, fire retardant cable designed for in-building runs that can be routed anywhere except air handling plenums. LMR-FR is UL/NEC & CSA rated 'CMR' and 'FT4' respectively, meets FAA FAR25 requirements and is MSHA-P for mining applications.
- LMR*- FR-PVC is a general-purpose indoor cable and has a UL/NEC & CSA rating of 'CMR' and 'FT4' respectively. It is less expensive than LMR-FR, however it emits toxic fumes (HCL) and greater smoke density when burned.
- LMR*- PVC is designed for low loss general-purpose applications and is somewhat more flexible than the standard polyethylene jacketed LMR.
- LMR°-PVC-W is a white-jacketed version of LMR-PVC for marine and other applications where color compatibility is desired.
- Flexibility and bendability are hallmarks of the LMR-400 cable design. The flexible outer conductor enables the tightest bend radius available for any cable of similar size and performance.
- Low Loss is another hallmark feature of LMR-400.

Size for size LMR has the lowest loss of any flexible cable and comparable loss to semirigid hard-line cables.

LMR 400 TIM

- **RF Shielding** is 50 dB greater than typical single shielded coax (40 dB). The multi-ply bonded foil outer conductor is rated conservatively at > 90 dB (i.e. > 180 dB between two adjacent cables).
- **Weatherability**: LMR-400 cables designed for outdoor exposure incorporate the best materials for UV resistance and have life expectancy in excess of 20 years.
- Connectors: A wide variety of connectors are available for LMR-400 cable, including all common interface types, reverse polarity, and a choice of solder or non-solder center pins. Most LMR connectors employ crimp outer attachment using standard hex crimp sizes.
- Cable Assemblies: All LMR-400 cable types are available as pre-terminated cable assemblies. Refer to the section on FlexTech for further details.

ı		Part Description			Stock
	Part Number	Application	Jacket	Color	Code
	LMR-400	Outdoor	PE	Black	54001
	LMR-400-DB	Outdoor/Watertight	PE	Black	54091
	LMR-400-FR Inc	door/Outdoor Riser CMR	FRPE	Black	54030
	LMR-400-FR-PVC	Indoor/Outdoor Riser CMR	FRPVC	Black	54073
	LMR-400-PVC	General Purpose	PVC	Black	54218
	LMR-400-PVC-W	General Purpose	PVC	White	54204

Construction Specifications										
Description	Material	In.	(mm)							
Inner Conductor	Solid BCCAI	0.108	(2.74)							
Dielectric	Foam PE	0.285	(7.24)							
Outer Conductor	Aluminum Tape	0.291	(7.39)							
Overall Braid	Tinned Copper	0.320	(8.13)							
Jacket	(see table above)	0.405	(10.29)							

TIMES MICROWAVE SYSTEMS

LMR®-400 Flexible Low Loss Communications Coax



Connectors

nterface	Description	Part Number	Stock Code	VSV Freq.			Inner Contact Attach			Le in	ngth (mm)	W in	idth (mm)	Weig lb(g	
7-16 DIN Female	Straight Jack	TC-400-716-FC	3190-376	<1.25:1	(2.5)	NA	Solder	Clamp	S/S	1.6	(41)	1.13	(28.7)	0.281	(127.5)
7-16 DIN Male	Straight Plug	EZ-400-716M-X	3190-2524	<1.25:1	(6)	Hex	Spring Finge	er Crimp	A/G	1.6	(39.5)	1.38	(35)	0.277	(126.0)
7-16 DIN Male	Straight Plug	TC-400-716-MC	3190-279	<1.25:1	(2.5)	Hex	Solder	Clamp	S/S	1.4	(36)	1.40	(35.6)	0.268	(121.6)
7-16 DIN Male	Right Angle	TC-400-716MC-RA	3190-1671	<1.25:1	(<3)	Hex	Solder	Clamp	A/S	2.4	(61.5)	1.88	(47.8)	0.35	(159)
7-16DIN Male	Right Angle	EZ-400-716M-RA-X	3190-2545	<1.35:1	(6)	Hex	Spring Finge	er Crimp	A/G	1.6	(41.7)	1.75	(44.3)	0.374	(0.17)
BNC Male	Straight Plug	TC-400-BM	3190-318	<1.25:1	(2.5)	Knurl	Solder	Crimp	N/S	1.7	(43)	0.56	(14.2)	0.063	(28.6)
HN Male	Straight Plug	TC-400-HNM	3190-923	<1.25:	(<1)	Knurl	Solder	Clamp	S/G	2.3	(59.2)	0.88	(22.4)	0.25	(113.4)
HN Male	Right Angle	TC-400-HNM-RA	3190-2541	<1.25:1	(2.5)	Hex	Solder	Crimp	A/G	1.6	(41.4)	1.56	(39.6)	0.198	(90.0)
QDS Male	Straight Plug	TC-400-QDSM	3190-620	<1.25:	(<3)	Knurl	Solder	Clamp	A/G	1.8	(46.6)	1.00	(25.4)	0.25	(113.4)
Mini-UHF	Straight Plug	TC-400-MUHF	3190-520	<1.25:1	(2.5)	Knurl	Solder	Crimp	N/G	1.1	(28)	0.50	(12.7)	0.020	(9.1)
N Female	Straight Jack	TC-400-NFC	3190-299	<1.25:1	(2.5)	NA	Solder	Clamp	N/S	1.6	(41)	0.75	(19.1)	0.119	(54.0)
	Straight Jack	EZ-400-NF	3190-956	<1.25:1	(2.5)	NA	Spring Finge	er Crimp	N/G	1.8	(45)	0.66	(16.8)	0.105	(47.6)
	Straight Jack	TC-400-NF	3190-2255	<1.25:1	(2.5)	NA	Solder	Crimp	N/G	1.8	(45)	0.66	(16.8)	0.105	(47.6)
	Bulkhead Jack	EZ-400-NF-BH	3190-518*	<1.25:1	(2.5)	NA	Spring Finge	er Crimp	N/G	1.8	(46)	0.88	(22.4)	0.102	(46.3)
	Bulkhead Jack	TC-400-NFC-BH (A)	3190-872	<1.25:1	(2.5)	NA	Solder	Clamp	A/G	1.8	(46)	0.88	(22.4)	0.145	(65.8)
N Male	Straight Plug	SC-400-NM	3190-1454	<1.25:1	(2.5)	Knurl	Solder	Crimp	N/G	1.5	(38)	0.75	(19.1)	0.090	(40.8)
	Straight Plug	TC-400-NMC	3190-277	<1.25:1	(2.5)	Knurl	Solder	Clamp	N/G	1.5	(38)	0.70	(17.8)	0.121	(54.9)
	Straight Plug	EZ-400-NMC-2	3190-2640	<1.25:1	(2.5)	Hex/Knurl	Spring Finge	erCrimp	N/G	1.5	(38)	0.75	(19.1)	0.121	(54.9)
	Straight Plug	EZ-400-NMH-X	3190-2590	<1.25:1	(10)	Hex/Knurl	Spring Fing	erCrimp	A/G	1.5	(38)	0.89	(22.6)	0.103	(46.8)
	Straight Plug	TC-400-NMH-X	3190-2626	<1.25:1	(10)	Hex/Knurl	Solder	Crimp	A/G	1.5	(38)	0.89	(22.6)	0.113	(51.3)
	Straight Plug	EZ-400-NMK	3190-661	<1.25:1	(10)	Knurl	Spring Finge	erCrimp	S/G	1.5	(38)	0.75	(22.6)	0.113	(51.3)
	Right Angle	EZ-400-NMH-RA-X	3190-2638	<1.35:1	(6)	Hex/Knurl	Spring Finge	er Crimp	A/G	1.87	(47)	1.42	(36.0)	0.177	(80.2)
	Right Angle	TC-400-NMH-RA-D	3190-2293*	<1.35:1	(6)	Hex/Knurl	Solder	Crimp	A/G	1.8	(46)	1.25	(31.8)	0.130	(59.0)
	Right Angle	TC-400-NMC-RA (A)	3190-870	<1.35:1	(2.5)	Hex	Solder	Clamp	A/G	1.8	(46)	1.25	(31.8)	0.150	(68.0)
	Reverse Polarit	y TC-400-NM-RP	3190-960	<1.25:1	(2.5)	Knurl	Solder	Crimp	N/G	1.5	(38)	0.75	(19.1)	0.090	(40.8)
SMA Male	Straight Plug	TC-400-SM	3190-439	<1.25:1	(8)	Hex	Solder	Crimp	N/G	1.2	(29)	0.50	(12.7)	0.032	(14.5)
TNC Female	Reverse Polarit	y TC-400-TF-RP	3190-1063	<1.25:1	(2.5)	NA	Solder	Crimp	N/G	1.8	(46)	0.55	(14.0)	0.074	(33.6)
	Reverse Polarit	y EZ-400-TF-RP	3190-795	<1.25:1	(2.5)	NA	Spring Finge	er Crimp	A/G	1.8	(46)	0.55	(14.0)	0.074	(33.6)
TNC Male	Straight Plug	TC-400-TM-X	3190-2532	<1.25:1	(6)	Hex/Knurl	Solder	Crimp	A/G	1.9	(48)	0.67	(17.5)	0.075	(34.3)
	Straight Plug	EZ-400-TM-X	3190-2533	<1.25:1	(6)	Hex/Knurl	Spring Finge	er Crimp	A/G	1.9	(48)	0.67	(17.5)	0.075	(34.3)
	Right Angle	TC-400-TM-RA	3190-442*	<1.35:1	(2.5)	Knurl	Solder	Crimp	N/G	1.7	(43)	0.59	(15.0)	0.085	(38.6)
	Reverse Polarit	y TC-400-TM-RP	3190-1062	<1.25:1	(2.5)	Knurl	Solder	Crimp	N/G	1.7	(43)	0.59	(15.0)	0.074	(33.6)
	Reverse Polarit	v EZ-400-TM-RP	3190-794	<1.25:1	(2.5)	Knurl	Spring Finge	r Crimon	A/G	1.7	(43)	0.59	(15.0)	0.074	(33.6)