



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



• PE-B400, PE-B405, PE-C400, LMR-400, .400 inch

Interface Type

Crimp/Solder Attachment

Silver Plated Brass Contact

• 70 µin minimum contact plating

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

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

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

RF Connectors Technical Data Sheet

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Material Specifications

Description	Material	Plating
Contact	Brass	Silver 70 µin minimum
Insulation	PTFE	
Body	Brass	Nickel 100 µin minimum
Coupling Nut	Brass	Nickel 100 µin minimum
Crimp Sleeve	Brass	Nickel

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.

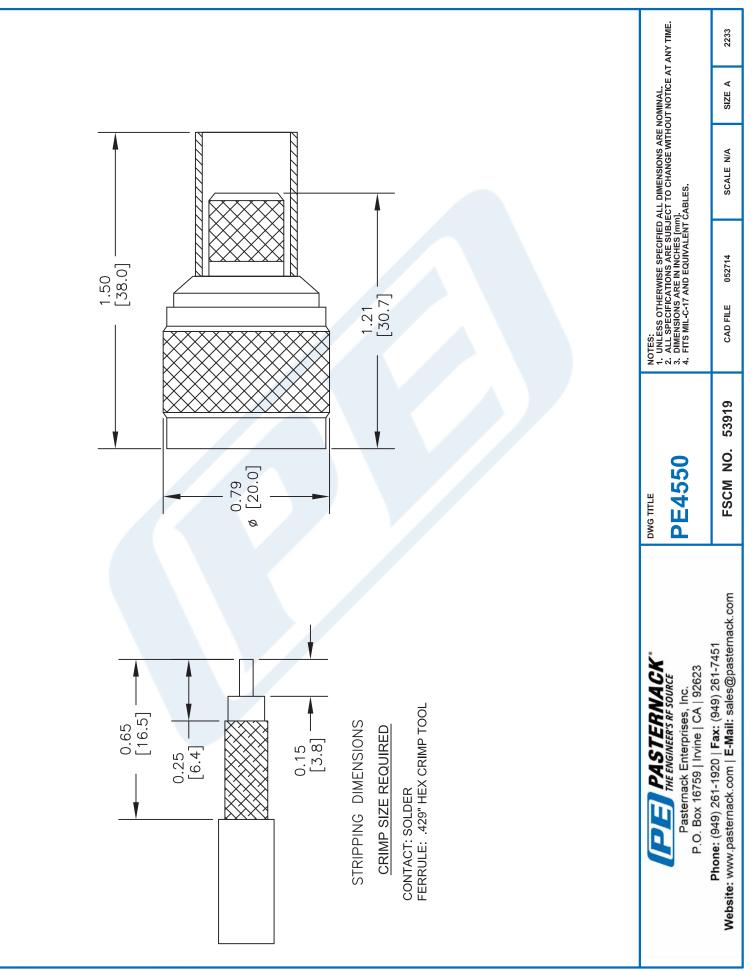
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Male Connector Crimp/Solder Attachment for PE-B400, PE-B405, PE-C400, LMR-400, 0.400 inch PE4550

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.

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PE4550 CAD Drawing N Male Connector Crimp/Solder Attachment for PE-B400, PE-B405, PE-C400, LMR-400, 0.400 inch



TTIMES MICROWAVE SYSTEMS

LMR-[®]400-UF UltraFlex 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 that requires periodic/repeated flexing

• LMR*- UltraFlex has a stranded center conductor and rubber outer jacket designed for multiple bending/ flexing cycles. It is used for both indoor and outdoor applications.

• **Flexibility** and bendability are hallmarks of the LMR-400-UF 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-UF. Size for size LMR has the lowest loss of any flexible cable and comparable loss to semirigid hard-line cables.

• **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-UF cables are designed for outdoor exposure and have a life expectancy in excess of 10 years.

• **Connectors**: A wide variety of connectors are available for LMR-400-UF cable, including all common interface types, reverse polarity, and solder-on center pins. Most LMR connectors employ crimp outer attachment using standard hex crimp sizes.

LUR-SEQ ULTRAFLEX THE

• **Cable Assemblies**: All LMR-400-UF cable types are available as pre-terminated cable assemblies. Refer to the section on FlexTech for further details.

		Part Des	criptio	n Stock
Part Number	Application	Jacket	Color	Code
LMR-400-UF	Indoor/Outdoor	TPE	Black	54040

Construction Specifications								
Description	Material	In.	(mm)					
Inner Conductor	Stranded BC	0.108	(2.74)					
Dielectric	Foam Polyethylene	0.285	(7.24)					
Outer Conductor	Aluminum Tape	0.291	(7.39)					
Overall Braid	Tinned Copper	0.320	(8.13)					
Jacket	Black Thermoplastic Elastomer	0.405	(10.29)					



_MR-400-UF

LMR[®]-400-UF UltraFlex Communications Coax



Connectors

Interface	Description	Part Number	Stock Code	۷S۱ Freq.		Coupling) Nut	Inner Contact Attach	Outer Contact Attach	Body		ngth (mm)	W in	idth (mm)	We Ib	ight (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	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)
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)
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)
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-NM	3190-188	<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)	0.75	(19.1)	0.121	(54.9)
	Straight Plug	TC-400-NMH-D	3190-552	<1.25:1	(10)	Hex/Knurl	Solder	Crimp	A/G	1.5	(38)	0.89	(22.6)	0.113	(51.3)
	Right Angle	TC-400-NMH-RA	3190-422*	<1.35:1	(6)	Hex	Solder	Crimp	S/G	1.8	(46)	1.25	(31.8)	0.130	(59.0)
	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)
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 Male	Straight Plug	TC-400-TM	3190-260	<1.25:1	(2.5)	Knurl	Solder	Crimp	N/S	1.7	(43)	0.59	(15.0)	0.074	(33.6)
	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)

* Finish metals: N=Nickel, S=Silver, G=Gold, SS=Stainless Steel, A=Alballoy **VSWR spec based on 3 foot cable with a connector pair *Available in bulk pack

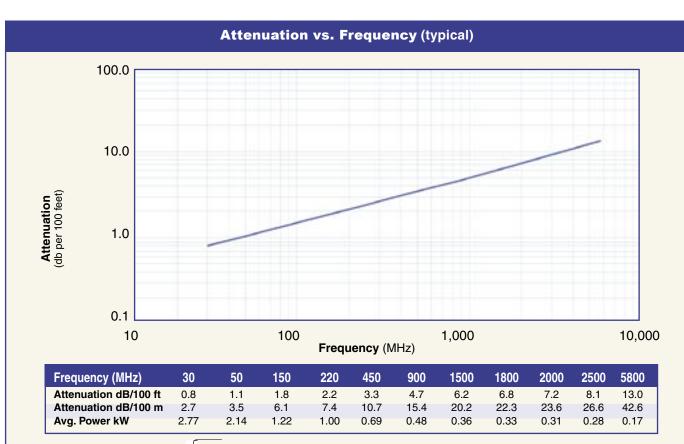
Mechanic	al Specifica	tions	
Performance Property	Units	US	(metric)
Bend Radius: installation	in. (mm)	1.0	(25.4)
Bend Radius: repeated	in. (mm)	4.0	(101.6)
Bending Moment	ft-lb (N-m)	0.375	(0.51)
Weight	lb/ft (kg/m)	.088	(0.131)
Tensile Strength	lb (kg)	160	(72.6)
Flat Plate Crush	lb/in. (kg/mm)	20	(0.36)

ICROWAVE

Environmental S	pecifica	tions	
Performance Property	۴F	°C	
Installation Temperature Range	-40/+185	-40/+85	
Storage Temperature Range	-94/+185	-70/+85	
Operating Temperature Range	-40/+185	-40/+85	

Electri	cal Specificat	tions	
Performance Property	Units	US	(metric)
Cutoff Frequency	GHz		16.2
Velocity of Propagation	%		85
Dielectric Constant	NA		1.38
Time Delay	nS/ft (nS/m)	1.20	(3.92)
Impedance	ohms		50
Capacitance	pF/ft (pF/m)	23.9	(78.40)
Inductance	uH/ft (uH/m)	0.060	(0.21)
Shielding Effectiveness	dB		>90
DC Resistance			
Inner Conductor	ohms/1000ft (/km)	1.07	(3.51)
Outer Conductor	ohms/1000ft (/km)	1.65	(5.4)
Voltage Withstand	Volts DC		2500
Jacket Spark	Volts RMS		8000
Peak Power	kW		16

TIMES MICROWAVE SYSTEMS



 $\label{eq:calculate} \begin{array}{l} \textbf{Calculate Attenuation} = (0.146748) \bullet \sqrt{FMHz} + (0.000312) \bullet FMHz \ (interactive calculator available at http://www.timesmicrowave.com/cable_calculators) \\ \textbf{Attenuation: VSWR=1.0; Ambient} = +25^{\circ}\text{C} \ (77^{\circ}\text{F}) \ \textbf{Power: VSWR=1.0; Ambient} = +40^{\circ}\text{C}; \ \text{Inner Conductor} = 100^{\circ}\text{C} \ (212^{\circ}\text{F}); \end{array}$ Sea Level; dry air; atmospheric pressure; no solar loading





Hardware Accessories

Туре	Part Number	Stock Code	Description	
Ground Kit	GK-S400TT	GK-S400TT	Standard Grounding Kit (each)	
Hoisting Grip	HG-400T	HG-400T	Laced Type (each)	



Install Tools

Туре	Part Number	Stock Code	Description
Crimp Tool	HX-4	3190-200	Crimp Handle
Crimp Dies	Y1719	3190-202	.429" Hex Dies
Crimp Tool	CT-400/300	3190-666	Crimp tool for LMR 400 connectors
Crimp Rings	CR-400	3190-830	Crimp rings for TC/EZ-400 connectors (package of 10)
Cutting Tool	CCT-01	3190-1544	Cable end flush cut tool
Replacement B	lade RB-01	3190-1609	Replacement blade for cutting tool