



N 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

PE44522

Configuration

- N Male Connector
- 50 Ohms
- Straight Body Geometry
- PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF, 0.400 inch Interface Type
- Crimp/Solder Attachment
- 18 mm Hex

Features

- Max. Operating Frequency 11 GHz
- Gold Plated Brass Contact
- 15 μ m minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE44522 type N male connector with crimp/solder attachment for PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF and 0.400 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 11 GHz.

Our type N male connector PE44522 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

Mechanical Specifications

Size	
Length	1.48 in [37.59 mm]
Width/Dia.	0.83 in [21.08 mm]
Weight	0.075 lbs [34.02 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-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF, 0.400 inch PE44522](#)



N 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	Gold 15 µin minimum
Insulation	PTFE	
Body	Brass	Tri-Metal
Coupling Nut	Brass	Tri-Metal

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-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% availability and are part of the broadest selection in the industry.

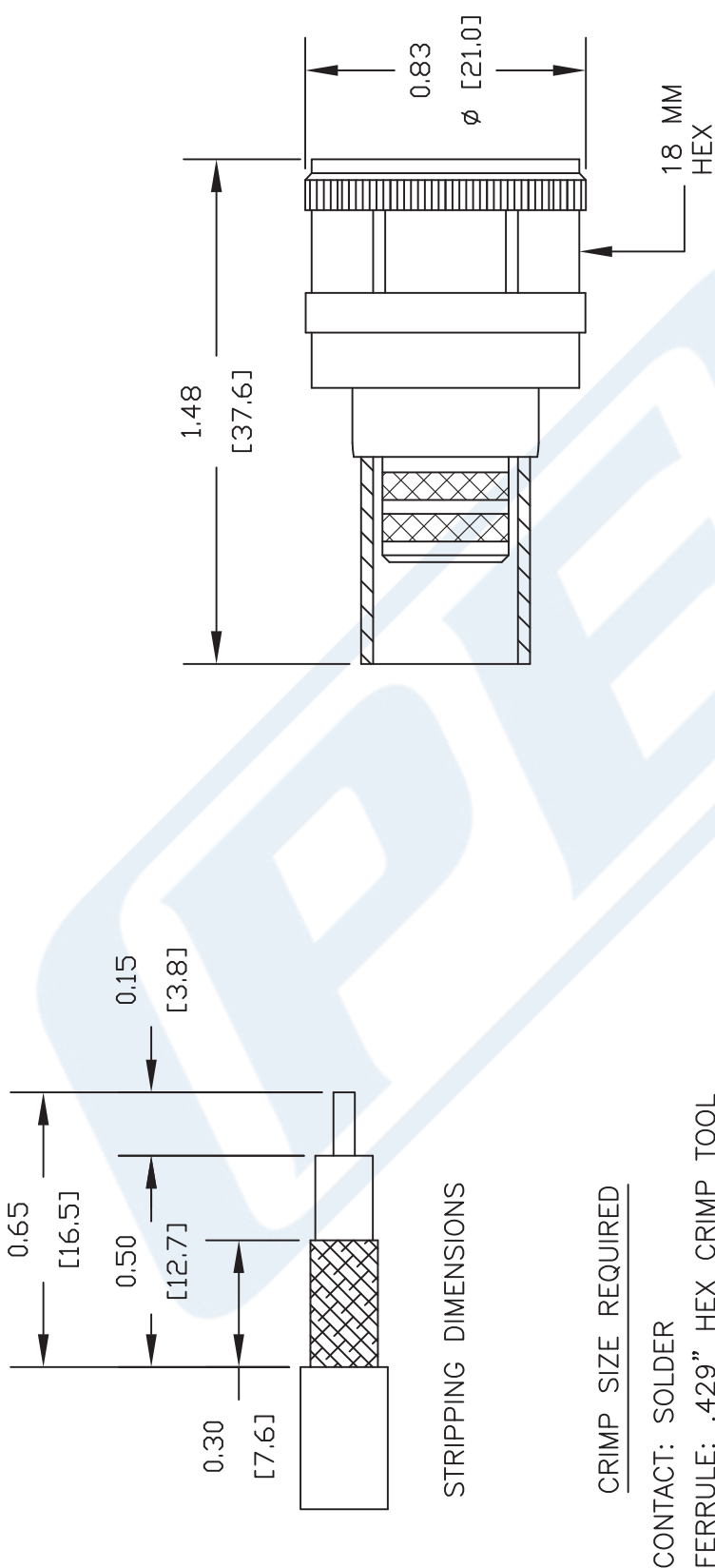
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Connector Crimp/Solder Attachment for PE-C400, PE-B400, PE-B405, LMR-400, LMR-400-DB, LMR-400-UF, 0.400 inch PE44522](#)

URL: <https://www.pasternack.com/n-male-standard-pe-c400-0.400-connector-pe44522-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.

PE44522 CAD Drawing

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



STRIPPING DIMENSIONS

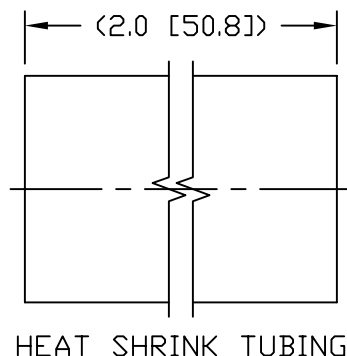
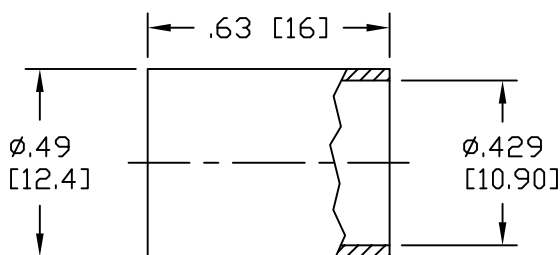
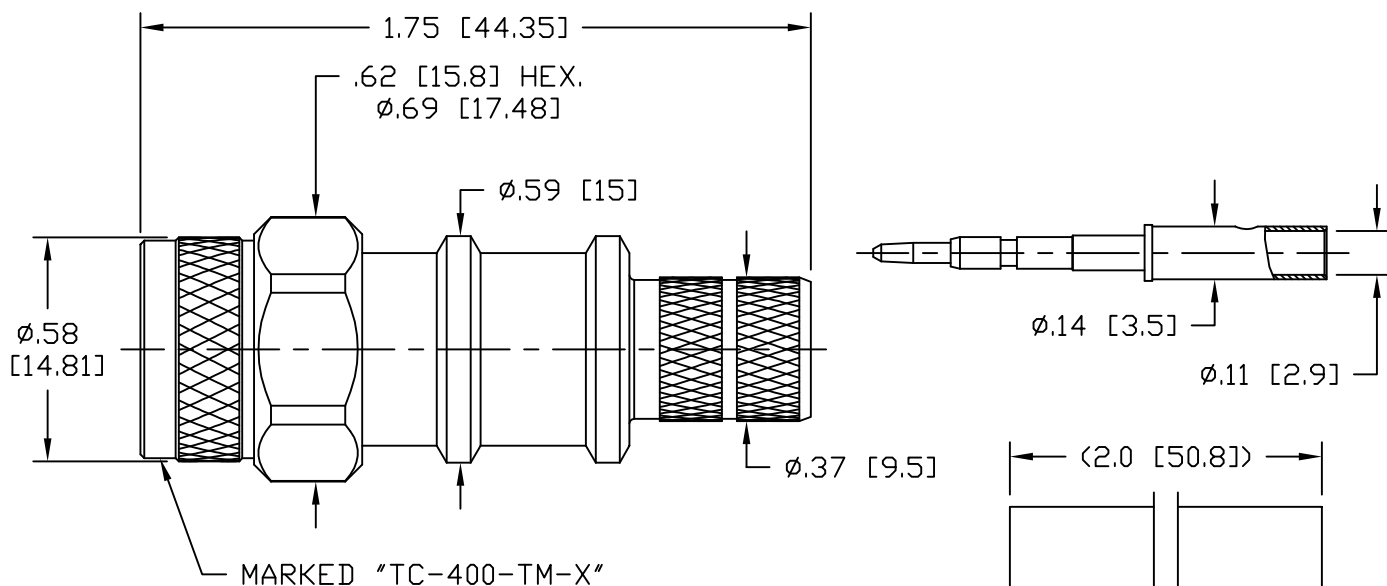
CRIMP SIZE REQUIRED

CONTACT: SOLDER
FERRULE: .429" HEX CRIMP TOOL

DWG TITLE PE4522		FSCM NO. 53919		CAD FILE 081711	SCALE N/A	SIZE A	2231
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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.

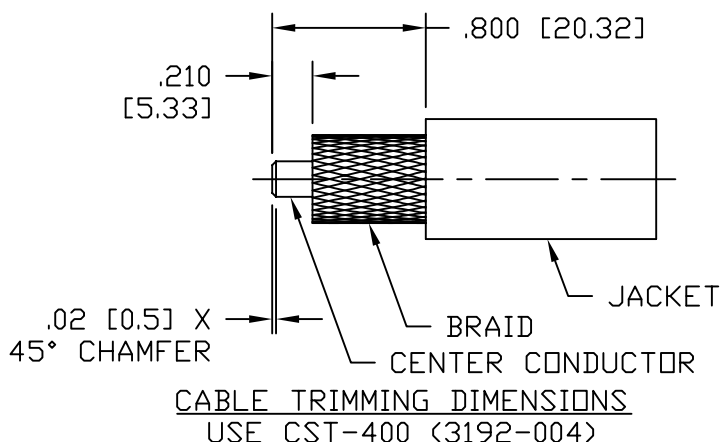
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B	CHANGED PER CDC #34322	D.J.H.	10/12/11	J.D.B.	10/27/11
C	CHANGED PER CDC #36607	D.J.H.	11/16/12	J.D.B.	11/19/12



HEAT SHRINK TUBING

NOTES:

- MATERIALS AND FINISHES:
BODY: BRASS, ALBALOY PLATING
COUPLING NUT: BRASS, ALBALOY PLATING
CENTER CONTACT: BRASS, GOLD PLATING
FERRULE: COPPER, ALBALOY PLATING
- ELECTRICAL:
IMPEDANCE: 50 OHMS NOMINAL
FREQUENCY: DC-6 GHz
VSWR: 1.2 DC-6 GHz
DIELECTRIC WITHSTANDING VOLTAGE: 1,000 VOLTS RMS
- MECHANICAL:
DURABILITY: 500 CYCLES MIN.
TEMPERATURE RANGE: -65°C TO +165°C
- CABLING INSTRUCTIONS:
A. SLIDE FERRULE OVER CABLE JACKET
B. TRIM CABLE TO DIMENSIONS SHOWN. MAKE SURE CUTS ARE SHARP AND SQUARE. DO NOT NICK BRAID OR CENTER CONDUCTOR.
C. TIN CENTER CONDUCTOR AND PLACE CONTACT ON CENTER CONDUCTOR UNTIL BOTTOMED AGAINST DIELECTRIC. SOLDER CONTACT TO CENTER CONDUCTOR.
D. FLAIR BRAID SLIGHTLY AND INSERT CABLE INTO BODY UNTIL BOTTOMED. SLIDE THE FERRULE UP THE CABLE AND OVER THE BRAID UNTIL BOTTOMED ON BODY. CRIMP FERRULE USING A .429 HEX.



MATL:	UNLESS OTHERWISE SPECIFIED	DFTM: K. A. M.	TIMES MICROWAVE SYSTEMS		
USED ON: D	ALL DIMENSIONS ARE IN INCHES MACHINED SURFACES FINISH 32 RMS MAX. REMOVE ALL BURRS .005 MAX. BREAK MACHINE CORNERS .005 MAX. FILLET R. TOLERANCES ON DECIMALS .XX ± .01 .XXX ± .005 ANGLES ± 1° FRACTIONS ± 1/64	DATE: 2/24/10	TC-400-TM-X PLUG, TNC FOR LMR-400		
		CHKD: J. D. B.			
		DATE: 3/2/10			
		APPD: J. D. B.			
SCALE: ~	DWG. SIZE: A	DO NOT SCALE DRAWING	CODE IDENT: 68999	DATE: 3/2/10	SHIT: 1 of 1 SD3190-2532 REV: C

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.

• **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.

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	Indoor/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)

LMR®-400 Flexible Low Loss Communications Coax



Connectors

							Inner	Outer	Finish*						
Interface	Description	Part Number	Stock Code	VSWR** Freq. (GHz)	Coupling Nut	Contact	Contact	Contact	Body	Length		Width		Weight	
						Attach	Attach	Attach	/Pin	in (mm)		in (mm)		lb(g)	
7-16 DIN Female	Straight Jack	TC-400-716-FC	3190-376	<1.25:1 (2.5)	NA	Solder	Clamp	S/S	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 Finger	Crimp	A/G	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	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	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 Finger	Crimp	A/G	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	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 (<1)	Knurl	Solder	Clamp	S/G	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	A/G	1.6 (41.4)	1.56 (39.6)	0.198 (90.0)			
QDS Male	Straight Plug	TC-400-QDSM	3190-620	<1.25:1 (<3)	Knurl	Solder	Clamp	A/G	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	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	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 Finger	Crimp	N/G	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	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 Finger	Crimp	N/G	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	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	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	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 Finger	Crimp	N/G	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 Finger	Crimp	A/G	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	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 Finger	Crimp	S/G	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 Finger	Crimp	A/G	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	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	A/G	1.8 (46)	1.25 (31.8)	0.150 (68.0)			
	Reverse Polarity	TC-400-NM-RP	3190-960	<1.25:1 (2.5)	Knurl	Solder	Crimp	N/G	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	N/G	1.2 (29)	0.50 (12.7)	0.032 (14.5)			
TNC Female	Reverse Polarity	TC-400-TF-RP	3190-1063	<1.25:1 (2.5)	NA	Solder	Crimp	N/G	N/G	1.8 (46)	0.55 (14.0)	0.074 (33.6)			
	Reverse Polarity	EZ-400-TF-RP	3190-795	<1.25:1 (2.5)	NA	Spring Finger	Crimp	A/G	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	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 Finger	Crimp	A/G	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	N/G	1.7 (43)	0.59 (15.0)	0.085 (38.6)			
	Reverse Polarity	TC-400-TM-RP	3190-1062	<1.25:1 (2.5)	Knurl	Solder	Crimp	N/G	N/G	1.7 (43)	0.59 (15.0)	0.074 (33.6)			
	Reverse Polarity	EZ-400-TM-RP	3190-794	<1.25:1 (2.5)	Knurl	Spring Finger	Crimp	A/G	A/G	1.7 (43)	0.59 (15.0)	0.074 (33.6)			