



RP TNC Male Connector Clamp/Solder Attachment For PE-B400, PE-B405

RF Connectors Technical Data Sheet

PE4674

Configuration

- TNC Male Reverse Polarity Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: PE-B400, PE-B405

Features

- Gold Plated Brass Contact
- 3 μ -5 μ in. minimum contact plating
- Reverse Polarity

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4674 RP TNC male connector with clamp/solder attachment for PE-B400 and PE-B405 is part of our full line of RF components available for same-day shipping. The male reverse polarity configuration uses a male connector body with a female inner contact receptacle.

Our reverse polarity TNC male connector PE4674 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.

Mechanical Specifications

| Size | |
|------------|---------------------|
| Length | 1.695 in [43.05 mm] |
| Width/Dia. | 0.75 in [19.05 mm] |
| Weight | 0.097 lbs [44 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RP TNC Male Connector Clamp/Solder Attachment For PE-B400, PE-B405 PE4674](#)



RP TNC Male Connector Clamp/Solder
Attachment For PE-B400, PE-B405

RF Connectors
Technical Data Sheet

PE4674

Material Specifications

| Description | Material | Plating |
|--------------|----------|---------------------------|
| Contact | Brass | Gold 3μ-5μ in. minimum |
| Insulation | Teflon | |
| Body | Brass | Nickel 70μ in. minimum |
| Coupling Nut | Brass | Nickel 70μ in. minimum |

Mechanical Specification Notes:

When attaching the connector to the cable use a clamp torque value of 60 to 65 in-lbs [6.78 to 7.34 Nm]

Environmental Specifications

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

Plotted and Other Data

Notes:

RP TNC Male Connector Clamp/Solder Attachment For PE-B400, PE-B405 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: [RP TNC Male Connector Clamp/Solder Attachment For PE-B400, PE-B405 PE4674](#)

URL: <https://www.pasternack.com/tnc-male-reverse-polarity-pe-b400-pe-b405-connector-pe4674-p.aspx>

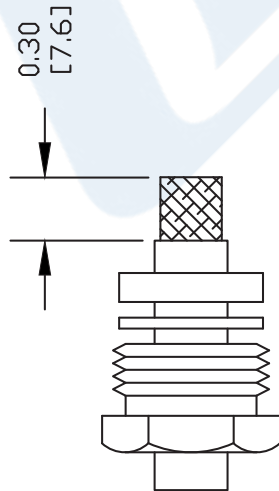
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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.

PE4674 CAD Drawing

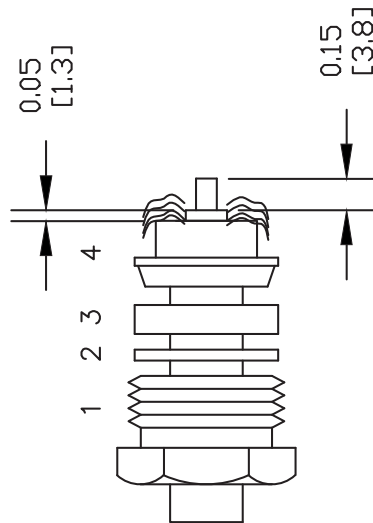
RP TNC Male Connector Clamp/Solder Attachment For PE-B400, PE-B405

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.



DWG TITLE

PE4674

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].
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

PE PASTERNAK®
 Pasternack Enterprises, Inc.
 P.O. Box 16759 | Irvine | CA | 92623
 Phone: (949) 261-1920 | Fax: (949) 261-7451
 Website: www.pasternack.com | E-Mail: sales@pasternack.com

FSCM NO. 53919

CAD FILE 052609

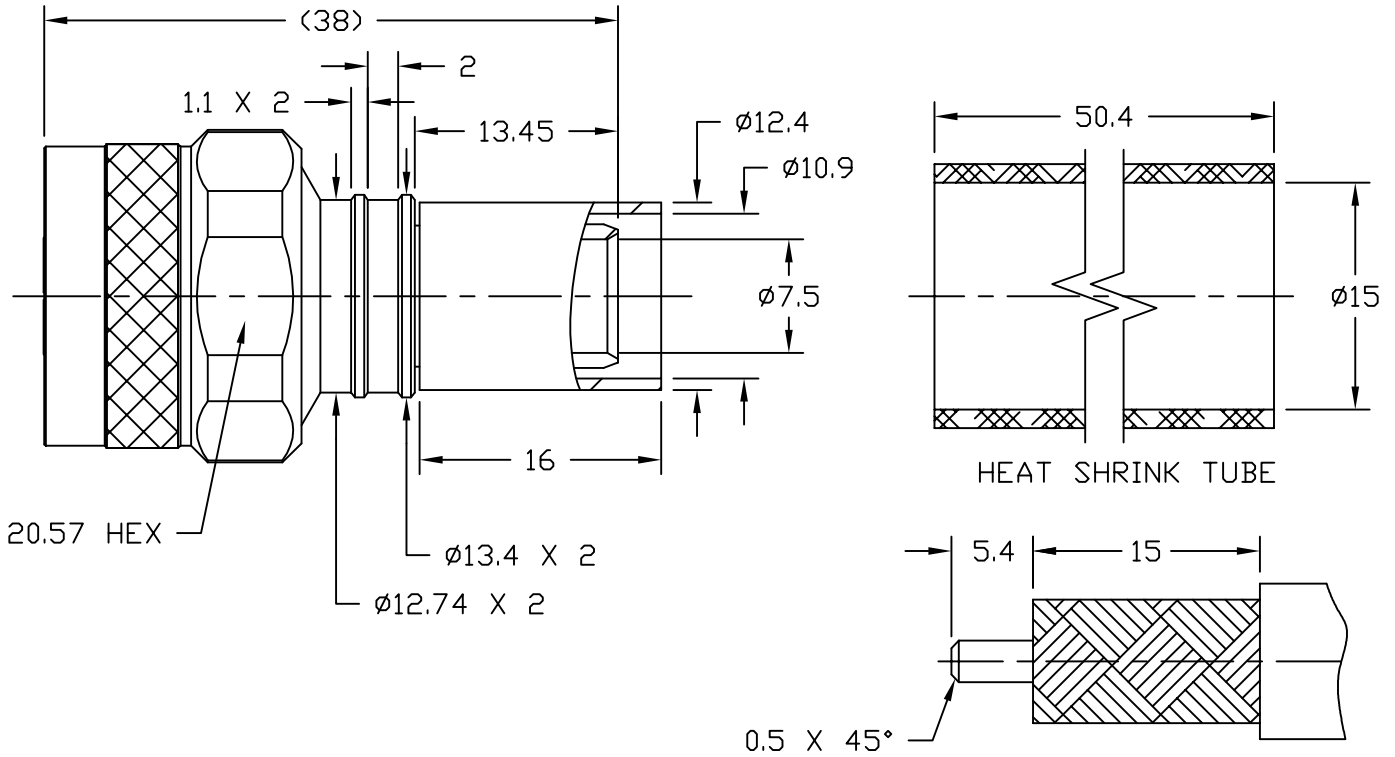
SCALE N/A

SIZE A

127

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 | D. J. H. | 3/15/11 | J. D. B. | 8/16/11 |



CABLE PREP.
USE CST-400
(3192-004)
.429" HEX.

| | | | |
|-------------------------------------|--|--|----------------------------------|
| Reference standard | IEC60169-16 | III. Material and plating: | |
| I. Electric Performance | | <u>Component</u> | <u>Material</u> |
| Impedance(Ω): | 50 | inner conductor | Brass |
| Frequency Range: | DC-6GHz | outer conductor | Brass |
| VSWR: | ≤ 1.25 | tube | Copper |
| Insert Loss: (dB) | ≤ 0.1 | nut | Brass |
| Insulation resistance (M Ω) | >5000 | gasket | Silicone rubber |
| Work voltage (V) | 1500 | insulator | PTFE |
| Conductor resistance (m Ω) | outer conductor <0.2 inner conductor <0.8 | IV. Environment | |
| II. Mechanical Performance | | Temp. range | -55°C~+155°C |
| Nut torque | 25N.m | Weather standard | IEC 60068 55 / 155/ 56 |
| (Nut) Whorl pull | 1000N | Thermal shock | US MIL-STD 202, Meth.107, Cond.B |
| Tensile force (cable-connect) | 400N | Vibration | US MIL-STD 202, Meth.204, Cond.B |
| Torsion (cable-connect) | 2N.m | Shock | US MIL-STD 202, Meth.213, Cond.I |
| | | Waterproofing standard | IP67 |
| | | V. Assembly: inner conductor soldered and outer conductor crimped. | |

| | | | |
|-------------|--|----------------|--|
| MATL: | UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN mm MACHINED SURFACES FINISH N/A RMS MAX. REMOVE ALL BURRS N/A MAX. BREAK MACHINE CORNERS N/A MAX. FILLET R. TOLERANCES ON DECIMALS . XX \pm N/A . XXX \pm N/A ANGLES $\pm 1^\circ$ FRACTIONS \pm N/A | DFTM. D. J. H. | TIMES MICROWAVE SYSTEMS TC-400-NMH-X "N" MALE FOR LMR-400 CABLE SOLDER/CRIMP/NO BRAID TRIM |
| USED ON: 0 | | DATE 3/15/11 | |
| | | CHKD. J. D. B. | |
| | | DATE 8/16/11 | |
| SCALE: N/A | DO NOT SCALE DRAWING | APPD. J. D. B. | DATE 8/16/11 |
| DWG. SIZE A | CODE IDENT 68999 | DATE 8/16/11 | 1 of 1 SD3190-2626 R/A |



LMR-LW400 Light weight version of the 400 series Low Loss Coax

Times Microwave Systems Coax Cable Specification

Configuration

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

Features

- Light Weight Coax with Aluminum Shielding
- Max Operating Frequency of 8 GHz
- Phase Velocity 84% VoP
- Max Operating Temperature +85°C
- PE Jacket
- Min Install Bend Radius of 1 inches

Applications

- Antenna Installs
- RF Test Systems
- General Purpose RF Interconnect
- Laboratory Applications

Description

LMR-LW400 Light weight version of the 400 series Low Loss Coax from Times Microwave is part of the large product offering by Pasternack of radio frequency coaxial cable types specifically stocked to be ready for same-day shipment. Pasternack LMR-LW400 coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This low loss and light weight flexible 50 Ohm coax cable LMR-LW400 is constructed with a 0.405 inch diameter and Black PE jacket.

LMR-LW400 flexible 50 Ohm coax cable with PE jacket is rated for a 8 GHz maximum operating frequency. This 50 Ohm 0.405 inch diameter and low loss flexible coax cable is built with an aluminum double shield count and RF shielding of 90 dB. Times Microwave LMR-LW400 PE coax is constructed with Foam PE dielectric and a maximum operating temperature of 85 degrees C. Pasternack's offering of LMR-LW400 coax cable provides specs for this wire on its RF coax cable LMR-LW400 datasheet.

LMR-LW400 cable is part of more than one million RF, microwave parts in stock at Pasternack. This Times Microwave low loss and light weight LMR-LW400 coax cable is ready to buy and can be shipped worldwide. Pasternack also maintains a wide selection of other radio frequency coaxial cable types that ship same-day from our warehouse as with the rest of our other RF/microwave components.

* LMR™ is a trademark of Times Microwave Systems.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|------------|---------|--------------|
| Frequency Range | DC | | 8 | GHz |
| Impedance | | 50 | | Ohms |
| Velocity of Propagation | | 84 | | % |
| 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 |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [LMR-LW400 Light weight version of the 400 series Low Loss Coax LMR-LW400](#)



LMR-LW400 Light weight version of the 400 series Low Loss Coax

RF Cables Technical Data Sheet



LMR-LW400

| | | |
|-------------------------------|--------------|--------------|
| Inner Conductor DC Resistance | 1.39 | Ohms/1000ft |
| Outer Conductor DC Resistance | 6.1 | 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 |

Performance by Frequency Band

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-------|-------|------|------|-------|----------|
| Frequency | 0.05 | 0.15 | 0.45 | 0.9 | 1.5 | GHz |
| Attenuation, Typ | 0.9 | 1.5 | 2.7 | 3.9 | 5.1 | dB/100ft |
| | 2.95 | 4.92 | 8.86 | 12.8 | 16.73 | dB/100m |
| Input Power (CW), Max | 2,570 | 1,470 | 830 | 580 | 440 | Watts |

| Description | F6 | F7 | F8 | F9 | F10 | Units |
|-----------------------|------|-------|-------|-------|-------|----------|
| Frequency | 1.8 | 2 | 2.5 | 5.8 | 8 | GHz |
| Attenuation, Typ | 5.7 | 6 | 6.8 | 10.8 | 13 | dB/100ft |
| | 18.7 | 19.69 | 22.31 | 35.43 | 42.65 | dB/100m |
| Input Power (CW), Max | 400 | 370 | 330 | 210 | 170 | Watts |

Mechanical Specifications

| | |
|---------------------------------|-------------------------|
| Diameter | 0.405 in [10.29 mm] |
| Weight | 0.05 lbs/ft [0.07 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, 1 Strand | 0.108 in [2.74 mm] |
| Conductor Type | Solid | |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [LMR-LW400 Light weight version of the 400 series Low Loss Coax LMR-LW400](#)



LMR-LW400 Light weight version of the 400 series Low Loss Coax

RF Cables
Technical Data Sheet



LMR-LW400

| | | |
|---------------|---------------|---------------------|
| Dielectric | Foam PE | 0.285 in [7.24 mm] |
| First Shield | Aluminum Tape | [] |
| Second Shield | Aluminium | [] |
| Jacket | PE, Black | 0.405 in [10.29 mm] |

Environmental Specifications

Temperature

| | |
|--------------------|------------------|
| Operating Range | -40 to +85 deg C |
| Installation 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:

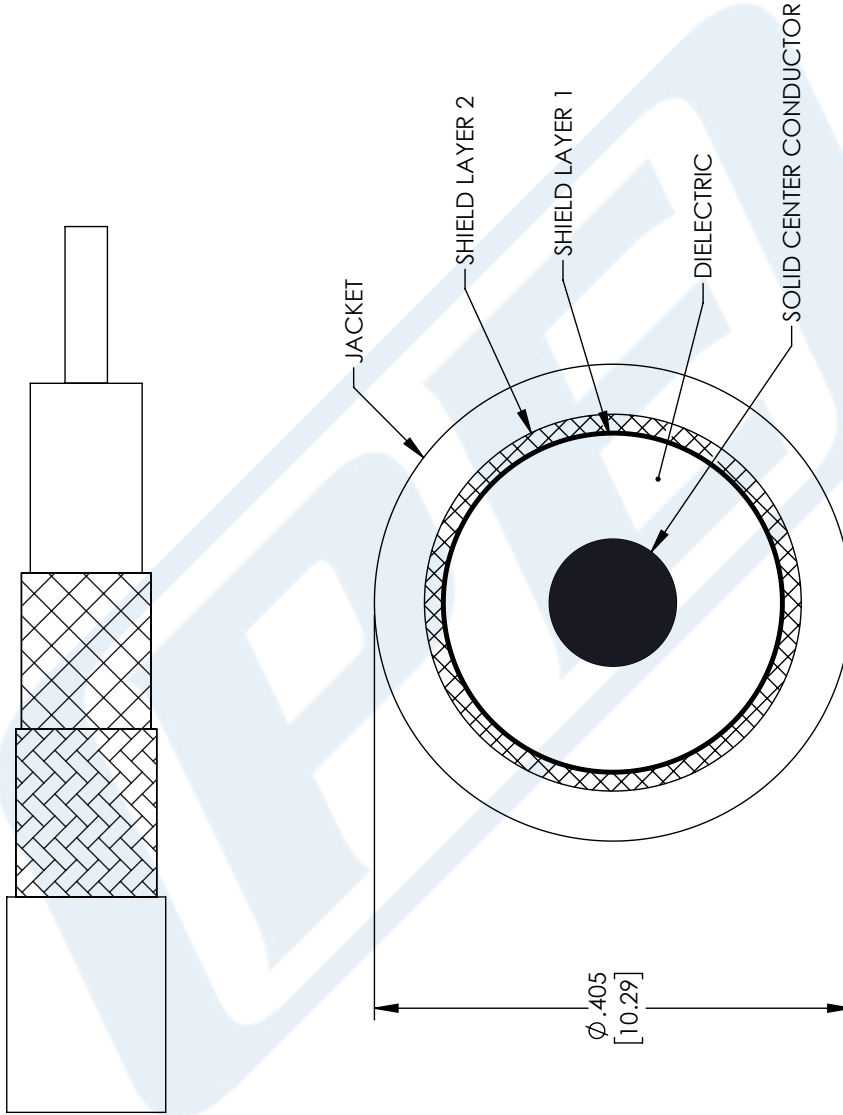
LMR-LW400 Light weight version of the 400 series Low Loss Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [LMR-LW400 Light weight version of the 400 series Low Loss Coax LMR-LW400](#)

URL: <https://www.pasternack.com/low-loss-flexible-lmr-lw400-pe-jacket-aluminum-tape-over-aluminium-outer-conductor-double-shielded-lmr-lw400-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.

| REVISIONS | | |
|-----------|-----------------|------------|
| REV. | DESCRIPTION | DATE |
| A | INITIAL RELEASE | 06-04-2021 |
| | | APPROVED |
| | | SELLIS |



| | | |
|---|--|--|
| UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS TOLERANCES: .X = ±.2 [.508] FRACTIONS ± 1/32 .XX = ±.02 [.51] ± 1/32 .XXX = ±.005 [.13] ANGLES ± 1° CABLE LENGTH (L): TOLERANCES: L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5% / -0 ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. | PE PASTERNAK an INFINITI brand Pasternack Enterprises, Inc. P. O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 Website: www.pasternack.com E-mail: sales@pasternack.com | THIRD-ANGLE PROJECTION THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED. SHEET 1 OF 1 SCALE N/A |
| | SIZE A CAGE CODE 53919 DRAWN BY MVEERAPPAN ITEM NO. LMR-LW400 | REV A |

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.