



75 Ohm TNC Male Connector Crimp/ Solder Attachment for RG59, RG62

RF Connectors Technical Data Sheet

PE44166

Configuration

- TNC Male Connector
- 75 Ohms
- Straight Body Geometry
- Connector Interface Types: RG59, RG62

Features

- Gold Plated Brass Contact
- 30μ in. minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE44166 75 ohm TNC male connector with crimp/solder attachment for RG59 and RG62 is part of our full line of RF components available for same-day shipping.

Our 75 ohm TNC male connector PE44166 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 | 1.098 in [27.89 mm] |
| Width/Dia. | 0.571 in [14.50 mm] |
| Weight | 0.03 lbs [13.61 g] |

Material Specifications

| Description | Material | Plating |
|--------------|----------|----------------------------|
| Contact | Brass | Gold 30μ in. minimum |
| Body | Brass | Nickel 100μ in. minimum |
| Coupling Nut | Brass | Nickel 100μ in. minimum |

Environmental Specifications

Temperature

| | |
|-----------------|-------------------|
| Operating Range | -65 to +165 deg C |
|-----------------|-------------------|

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm TNC Male Connector Crimp/Solder Attachment for RG59, RG62 PE44166](#)



75 Ohm TNC Male Connector Crimp/ Solder Attachment for RG59, RG62

RF Connectors Technical Data Sheet

PE44166

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

Plotted and Other Data

Notes:

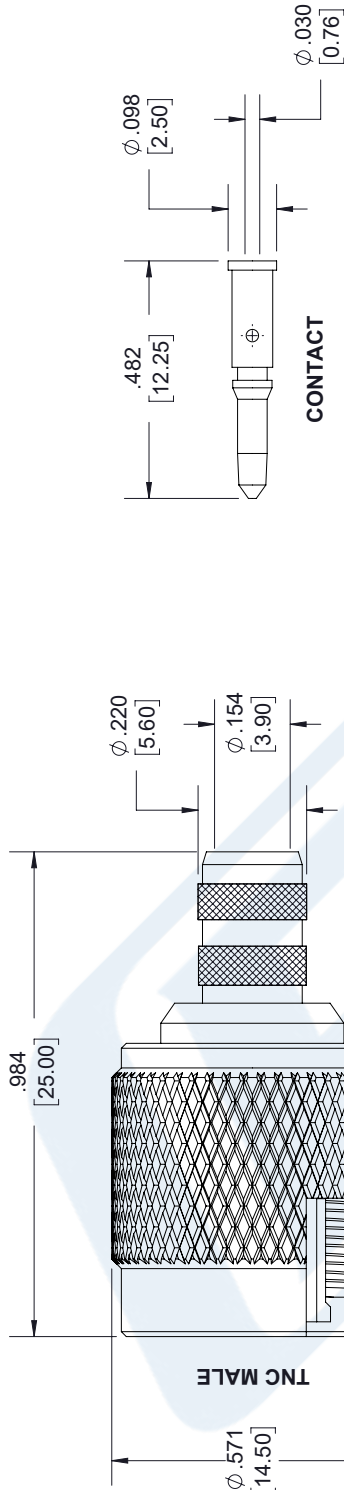
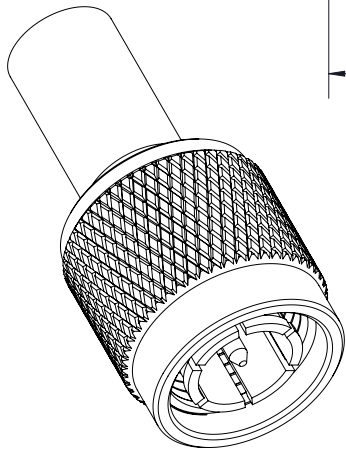
75 Ohm TNC Male Connector Crimp/Solder Attachment for RG59, RG62 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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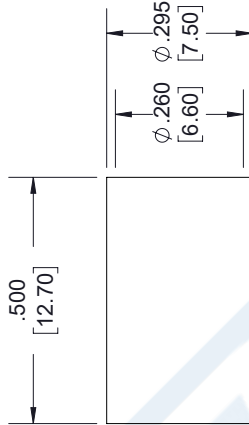
URL: <https://www.pasternack.com/tnc-male-rg59-rg62-connector-pe44166-p.aspx>

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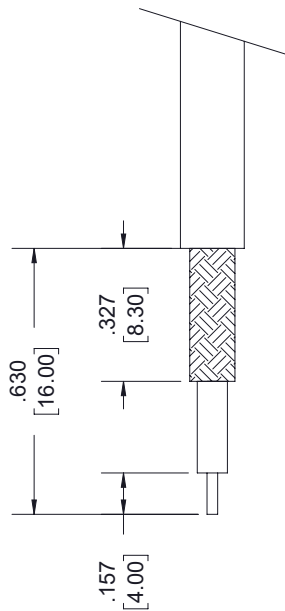
| REVISIONS | | | |
|-----------|-------------|-----------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | PCR PE44166 | 5/19/2020 | S.ELLIS |



CONTACT



FERRULE



STRIPPING DIMENSIONS

NOTES:

- CABLE ATTACHMENT:
 - OUTER: SOLDER.
 - INNER: SOLDER.
- CRIMP SIZE REQUIRED:
 - FERRULE: .255 [6.48] HEX. CRIMP TOOL.
 - CONTACT: .068 [1.73] HEX. CRIMP TOOL.

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE IN INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

.X = ± .2 [5.08] FRACTIONS
.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% L / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.



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SHEET 1 OF 1
SCALE N/A

REV A



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SIZE A CAGE CODE 53919 DRAWN BY K.DANG ITEM NO. PE44166

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75 Ohm SMC Jack Connector Clamp/ Solder Attachment For RG59, RG62

TECHNICAL DATA SHEET

PE4274

75 Ohm SMC Jack Connector Clamp/Solder Attachment For RG59, RG62

Configuration

| | |
|--|--------------|
| Connector | SMC Jack |
| Connector Interface Type | RG59, RG62 |
| Cable Attachment Method (Shield/Contact) | Clamp/Solder |
| Body Style | Straight |

Electrical Specifications

| | |
|-----------------|----|
| Impedance, Ohms | 75 |
|-----------------|----|

Mechanical Specifications

Size

| | |
|---------------------|---------------|
| Length, in [mm] | 0.725 [18.42] |
| Width/Dia., in [mm] | 0.345 [8.76] |
| Weight, lbs [g] | 0.013 [5.9] |

Connector

| | |
|------------------------------|---------------|
| Type | SMC Jack |
| Contact Material and Plating | Gold |
| Body Material and Plating | Brass, Nickel |
| Dielectric Type | PTFE |

Compliance Certifications (visit www.Pasternack.com for current document)

Plotted and Other Data

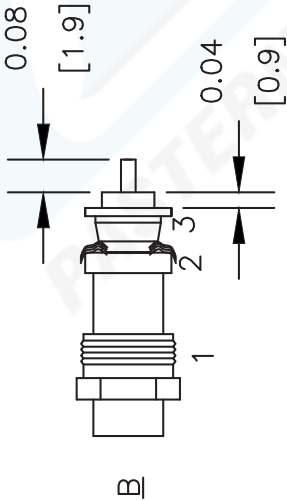
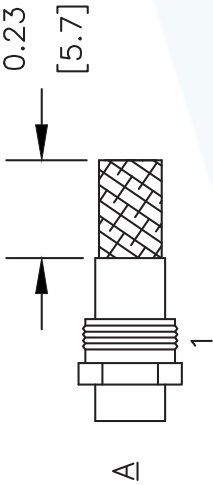
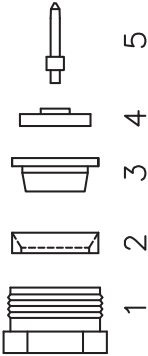
| | |
|--------|----------------------------|
| Notes: | Values at 25 °C, sea level |
|--------|----------------------------|

75 Ohm SMC Jack Connector Clamp/Solder Attachment For RG59, RG62 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic 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: [75 Ohm SMC Jack Connector Clamp/Solder Attachment For RG59, RG62 PE4274](http://www.pasternack.com/smc-jack-standard-rg59-rg62-connector-pe4274-p.aspx)

URL: <http://www.pasternack.com/smc-jack-standard-rg59-rg62-connector-pe4274-p.aspx>

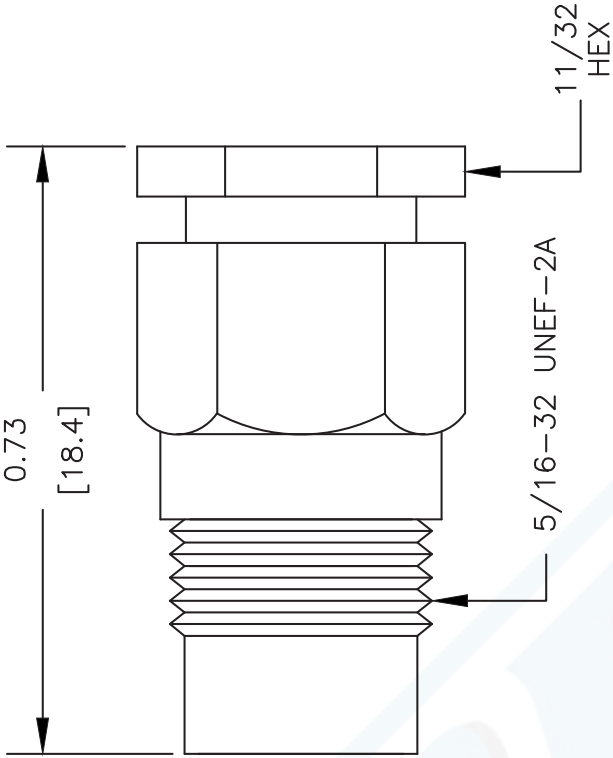
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STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. SLIDE CLAMP NUT (1) OVER CABLE AS SHOWN IN A.
SLIDE COMPRESSION WASHER (2) OVER BRAID & SEAT AGAINST JACKET. FLAIR BRAID OVER COMPRESSION WASHER (2).
2. SLIDE BRAID CLAMP (3) OVER DIELECTRIC & UNDER BRAID. PUSH INTO WASHER UNTIL IT STOPS. STRIP CABLE AS SHOWN IN B. TRIM EXCESS BRAID FLUSH WITH SURFACE OF COMPRESSION WASHER (2). INSERT INSULATOR (4) OVER DIELECTRIC WITH CENTER CONDUCTOR PROTRUDING THROUGH HOLE.
3. SOLDER CONTACT (5) TO CENTER CONDUCTOR. INSERT CABLE ASSEMBLY INTO BODY & TIGHTEN.



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DWG TITLE

PE4274

- 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.

REV. -

FSCM NO. 53919

CAD FILE 042309

SCALE N/A

SIZE A

2233

75 Ohm Flexible RG59 Coax Cable Single Shielded with Black PVC (NC) Jacket

RF Cables Technical Data Sheet

RG59B/U

Configuration

- Flexible Cable
- 1 Shield(s)

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range | DC | | 1,000 | MHz |
| Impedance | | 75.3 | | Ohms |
| Velocity of Propagation | | 66 | | % |
| Operating Voltage (AC) | | | 2,300 | Vrms |
| Nominal Capacitance | | 20.4 [66.93] | | pF/ft [pF/m] |

Performance by Frequency Band

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|------------------|------|-------|-------|-------|-------|----------|
| Frequency | 100 | 200 | 550 | 800 | 1,000 | MHz |
| Attenuation, Max | 3.81 | 5.37 | 9.18 | 11.21 | 12.68 | dB/100ft |
| | 12.5 | 17.62 | 30.12 | 36.78 | 41.6 | dB/100m |

Mechanical Specifications

| | |
|----------|--------------------------|
| Diameter | 0.242 in [6.15 mm] |
| Weight | 0.039 lbs/ft [0.06 Kg/m] |

Construction Specifications

| Description | Material and Plating | Diameter |
|-----------------|----------------------|------------------|
| Inner Conductor | Copper Clad Steel1 | 0.022 in 0.56 mm |
| Conductor Type | Solid | |
| Dielectric | PE | 0.146 in 3.71 mm |
| First Shield | Copper Braid | 0.165 in 4.19 mm |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [75 Ohm Flexible RG59 Coax Cable Single Shielded with Black PVC \(NC\) Jacket RG59B/U](#)

75 Ohm Flexible RG59 Coax Cable Single Shielded with Black PVC (NC) Jacket

RF Cables Technical Data Sheet

RG59B/U

| | | |
|--------|-----------------|--------------------|
| Jacket | PVC (NC), Black | 0.242 in [6.15 mm] |
|--------|-----------------|--------------------|

Environmental Specifications

Temperature

Operating Range

-25 to +70 deg C

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

Plotted and Other Data

Notes:

75 Ohm Flexible RG59 Coax Cable Single Shielded with Black PVC (NC) 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.

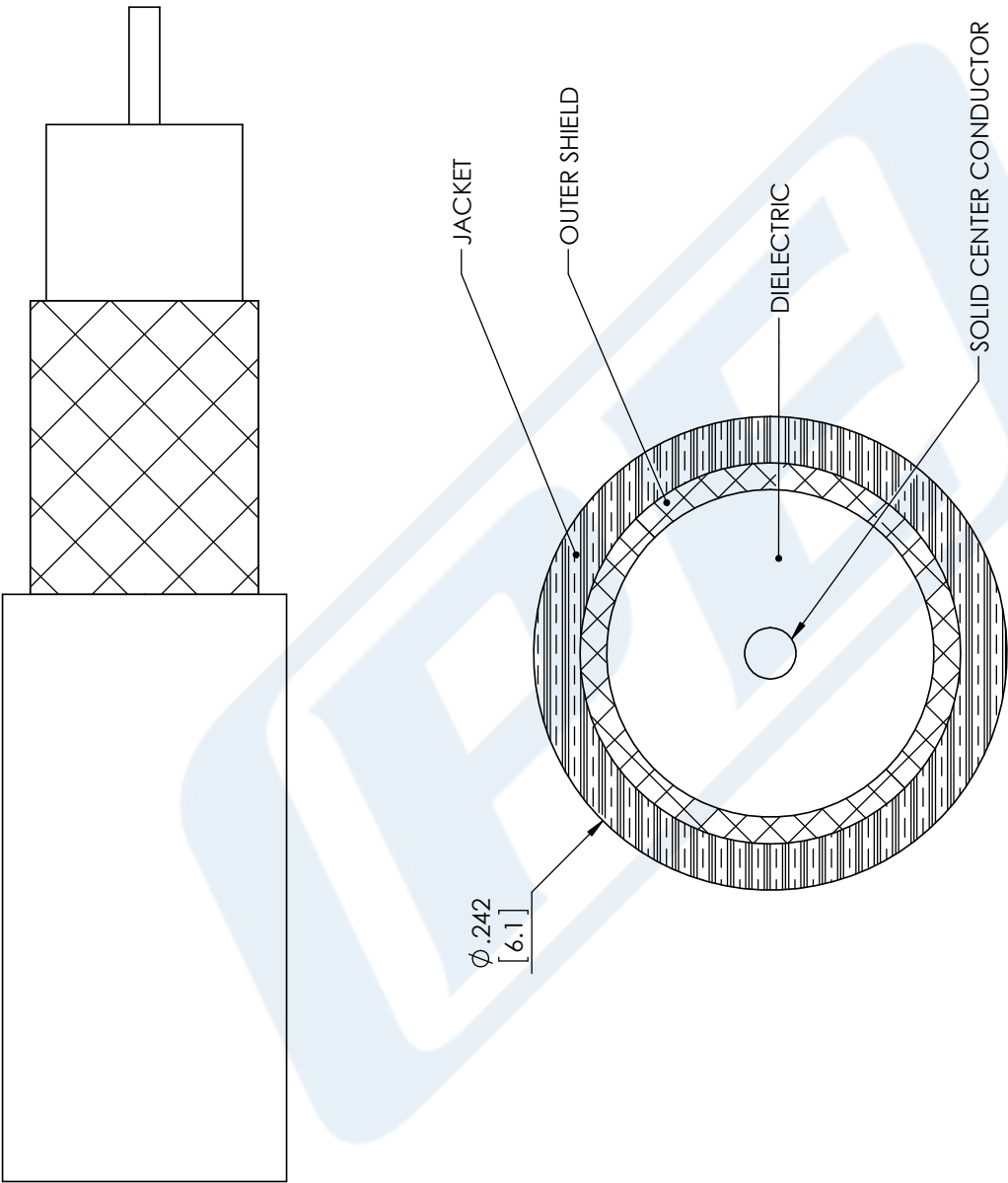
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URL: <https://www.pasternack.com/flexible-0.242-rg59-75-ohm-coax-cable-pvc-jacket-rg59b-u-p.aspx>

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RG59B/U CAD Drawing

75 Ohm Flexible RG59 Coax Cable Single Shielded with Black PVC (NC) Jacket



| STANDARD TOLERANCES |
|---------------------|
| .X ±0.2 |
| .XX ±0.01 |
| .XXX ±0.005 |

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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| | |
|-----------|---------|
| DWG TITLE | RG59B/U |
| CAGE CODE | 53919 |

| | | | | | | | |
|---|----------|----------|-------|-----|------|---|--------|
| 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]. | CAD FILE | 11/28/17 | SCALE | N/A | SIZE | A | CN2245 |
|---|----------|----------|-------|-----|------|---|--------|