



BNC Twinax Plug Connector Crimp/Solder Attachment for RG108, 78 Ohm Twinax

RF Connectors Technical Data Sheet

PE4234

**Configuration**

- BNC Twinax Plug Connector
- MIL-STD-348A
- 78 Ohms
- Straight Body Geometry
- RG108, 78 Ohm Twinax Interface Type
- Crimp/Solder Attachment

**Features**

- Max. Operating Frequency 500 MHz
- Gold Plated Brass/Beryllium Copper Contact
- 30 µm minimum contact plating

**Applications**

- General Purpose Test
- Custom Cable Assemblies

**Description**

Pasternack's PE4234 78 ohm BNC Twinax plug connector with crimp/solder attachment for RG108 and 78 Ohm Twinax is part of our full line of RF components available for same-day shipping. Our BNC Twinax plug connector operates up to a maximum frequency of 500 MHz.

Our 78 ohm BNC Twinax plug connector PE4234 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      |         | 500     | MHz   |
| Operating Voltage (AC) |         |         | 500     | Vrms  |

**Mechanical Specifications**

|             |                     |
|-------------|---------------------|
| <b>Size</b> |                     |
| Length      | 1.522 in [38.66 mm] |
| Width/Dia.  | 0.571 in [14.50 mm] |
| Weight      | 0.045 lbs [20.41 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Twinax Plug Connector Crimp/Solder Attachment for RG108, 78 Ohm Twinax PE4234](#)



## BNC Twinax Plug Connector Crimp/Solder Attachment for RG108, 78 Ohm Twinax

### RF Connectors Technical Data Sheet

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#### Material Specifications

| Description  | Material               | Plating                   |
|--------------|------------------------|---------------------------|
| Contact      | Brass/Beryllium Copper | Gold<br>30 µin minimum    |
| Insulation   | PTFE                   |                           |
| Body         | Brass                  | Nickel<br>100 µin minimum |
| Coupling Nut | Brass                  | Nickel<br>100 µin minimum |
| Gasket       | Silicone               |                           |
| Crimp Sleeve | Brass                  | Nickel                    |
| Washer       | 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:

#### Assembly Instruction

BNC Twinax Plug Connector Crimp/Solder Attachment for RG108, 78 Ohm Twinax 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.

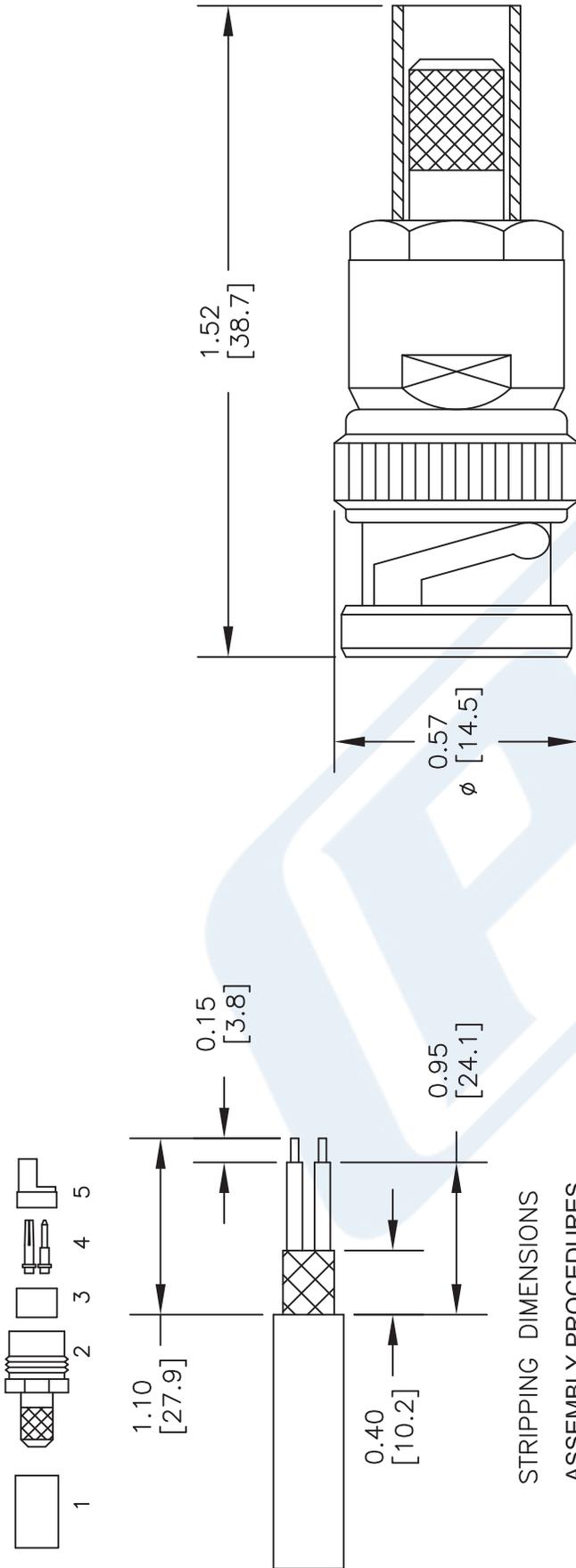
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URL: <https://www.pasternack.com/bnc-twinax-plug-standard-rg108-78-ohm-twinax-connector-pe4234-p.aspx>

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.

# PE4234 CAD Drawing

BNC Twinax Plug Connector Crimp/Solder Attachment for RG108, 78 Ohm Twinax



## STRIPPING DIMENSIONS

## ASSEMBLY PROCEDURES

1. SLIDE FERRULE (1) ONTO CABLE. STRIP CABLE TO DIMENSIONS SHOWN. SLIDE EXTENSION (2) BETWEEN BRAID & DIELECTRIC. SLIDE FERRULE OVER BRAID. SLIDE REAR INSULATOR (3) OVER CENTER CONDUCTORS & DIELECTRICS RESTING AGAINST EXTENSION (2).
2. SOLDER CONTACTS (4) TO CENTER CONDUCTOR THROUGH HOLE IN CONTACT. CONTACTS TO COMPLETELY REST ON DIELECTRIC (3) FOR PROPER HEIGHT. SLIDE FRONT INSULATOR (5) OVER CONTACTS.
3. SLIDE ASSEMBLY FORWARD INTO BODY & TIGHTEN. CRIMP FERRULE.

## CRIMP SIZE REQUIRED

FERRULE: .255" HEX CRIMP TOOL

\* WHEN SOLDERING CONTACTS MAKE SURE SAME SEX IS ON BOTH ENDS OF WIRE IDENTIFIED BY THE BARE COPPER WIRE.



**THE ENGINEER'S RF SOURCE**  
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DWG TITLE

**PE4234**

- 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.

FSCM NO. 53919

CAD FILE 092115

SCALE N/A

SIZE A

2233



## BNC Twinax Plug Connector Clamp/Solder Attachment for RG108, 78 Ohm Twinax

### RF Connectors Technical Data Sheet

PE4236

#### Configuration

- BNC Twinax Plug Connector
- MIL-STD-348
- 78 Ohms
- Straight Body Geometry
- RG108, 78 Ohm Twinax Interface Type
- Clamp/Solder Attachment

#### Features

- Silver Plated Contact
- Contact plating according to QQ-S-365

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE4236 78 ohm BNC Twinax plug connector with clamp/solder attachment for RG108 and 78 Ohm Twinax is part of our full line of RF components available for same-day shipping.

Our 78 ohm BNC Twinax plug connector PE4236 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 |
|------------------------|---------|---------|---------|-------|
| Operating Voltage (AC) |         |         | 500     | Vrms  |
| Insulation Resistance  | 5,000   |         |         | MOhms |

#### Mechanical Specifications

|             |                     |
|-------------|---------------------|
| <b>Size</b> |                     |
| Length      | 1.1 in [27.94 mm]   |
| Width/Dia.  | 0.57 in [14.48 mm]  |
| Weight      | 0.039 lbs [17.69 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Twinax Plug Connector Clamp/Solder Attachment for RG108, 78 Ohm Twinax PE4236](#)



## BNC Twinax Plug Connector Clamp/Solder Attachment for RG108, 78 Ohm Twinax

### RF Connectors Technical Data Sheet

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#### Material Specifications

| Description  | Material | Plating            |
|--------------|----------|--------------------|
| Contact      |          | Silver<br>QQ-S-365 |
| Insulation   | PTFE     |                    |
| Body         | Brass    | Nickel<br>QQ-N-290 |
| Coupling Nut | Brass    | Nickel<br>QQ-N-290 |

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

#### Plotted and Other Data

Notes:

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URL: <https://www.pasternack.com/bnc-twinax-plug-standard-rg108-78-ohm-twinax-connector-pe4236-p.aspx>

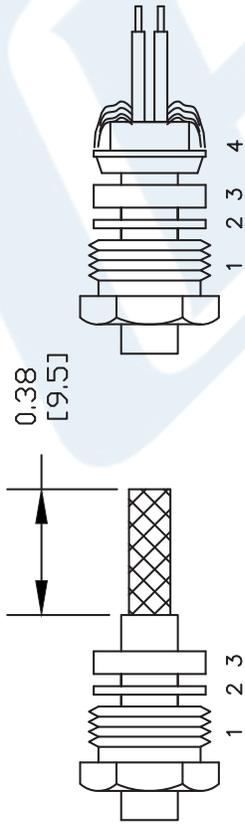
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# PE4236 CAD Drawing

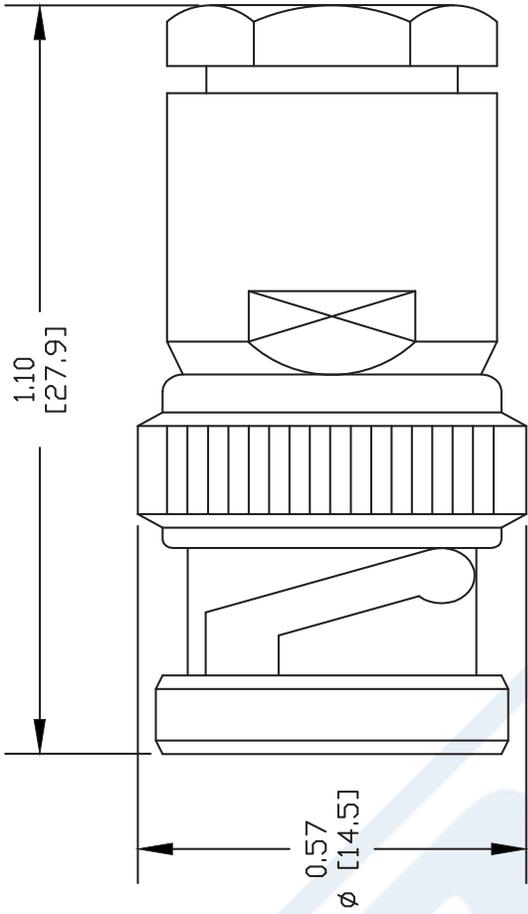
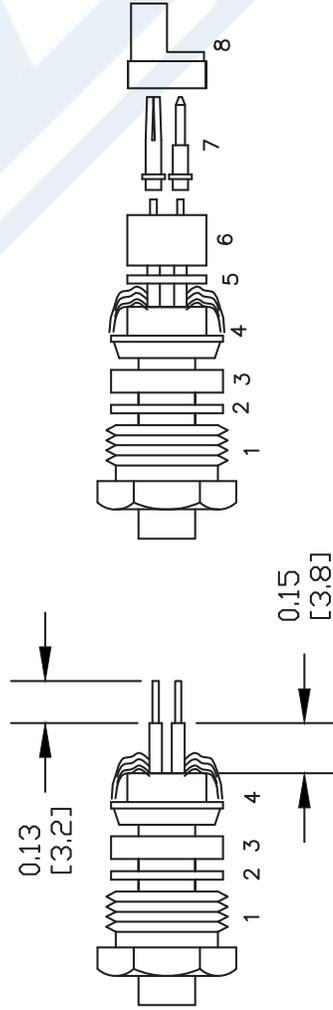
BNC Twinax Plug Connector Clamp/Solder Attachment for RG108, 78 Ohm Twinax

## ASSEMBLY PROCEDURES

1. SLIDE CLAMP NUT (1), WASHER (2) & GASKET (3) OVER CABLE. STRIP CABLE TO DIMENSION SHOWN. DO NOT NICK BRAID & DIELECTRIC. COMB OUT BRAID. TAPER END OF BRAID TO PERMIT ASSEMBLY OF BRAID CLAMP (4) . SLIDE BRAID CLAMP (4) OVER BRAID & BUTT AGAINST JACKET. FORM BRAID OVER CLAMP NUT (4). TRIM BRAID FLUSH WITH SHOULDER OF BRAID CLAMP (4).



2. STRIP CABLE TO DIMENSION SHOWN. SLIDE SMALL WASHER (5) REAR INSULATOR (6) OVER DIELECTRICS. SOLDER CONTACTS (7) TO CENTER CONDUCTOR THROUGH HOLE IN CONTACT. CLEAN EXCESS SOLDER. SLIDE FRONT INSULATOR (8) OVER CONTACTS. SLIDE ASSEMBLY FORWARD INTO BODY & TIGHTEN.



\* WHEN SOLDERING CONTACTS MAKE SURE SAME SEX IS ON BOTH ENDS OF WIRE IDENTIFIED BY THE BARE COPPER WIRE.



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DWG TITLE

**PE4236**

NOTES:

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3. DIMENSIONS ARE IN INCHES [mm].
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

REV. -

FSCM NO. 53919

CAD FILE 123005

SCALE N/A

SIZE A

127



## 78 Ohm Flexible RG108 Twinax Cable Single Shielded with Black PVC Jacket

### RF Cables Technical Data Sheet

RG108A/U

#### Configuration

- Flexible Cable
- 1 Shield(s)

#### Electrical Specifications

| Description             | Minimum | Typical      | Maximum | Units        |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range         | DC      |              | 1,000   | MHz          |
| Impedance               |         | 78 ±7        |         | Ohms         |
| Velocity of Propagation |         | 66           |         | %            |
| Nominal Capacitance     |         | 19.7 [64.63] |         | pF/ft [pF/m] |

#### Performance by Frequency Band

| Description      | F1   | F2    | F3    | F4    | F5    | Units               |
|------------------|------|-------|-------|-------|-------|---------------------|
| Frequency        | 10   | 100   | 200   | 400   | 700   | MHz                 |
| Attenuation, Typ | 2.3  | 7.5   | 11.3  | 16.2  | 22    | dB/100ft<br>dB/100m |
|                  | 7.55 | 24.61 | 37.07 | 53.15 | 72.18 |                     |

| Description      | F6    | F7    | F8 | F9 | F10 | Units               |
|------------------|-------|-------|----|----|-----|---------------------|
| Frequency        | 900   | 1,000 |    |    |     | MHz                 |
| Attenuation, Typ | 25.3  | 26.2  |    |    |     | dB/100ft<br>dB/100m |
|                  | 83.01 | 85.96 |    |    |     |                     |

#### Mechanical Specifications

|          |                          |
|----------|--------------------------|
| Diameter | 0.235 in [5.97 mm]       |
| Weight   | 0.038 lbs/ft [0.06 Kg/m] |

#### Construction Specifications

| Description     | Material and Plating   | Diameter           |
|-----------------|------------------------|--------------------|
| Inner Conductor | Copper, Tin, 7 Strands | 0.038 in [0.97 mm] |
| Conductor Type  | Stranded               |                    |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [78 Ohm Flexible RG108 Twinax Cable Single Shielded with Black PVC Jacket RG108A/U](#)



78 Ohm Flexible RG108 Twinax Cable Single  
Shielded with Black PVC Jacket

RF Cables Technical Data Sheet

RG108A/U

|              |                     |                    |
|--------------|---------------------|--------------------|
| Dielectric   | PE                  | 0.079 in [2.01 mm] |
| First Shield | Tinned Copper Braid | 0.185 in [4.7 mm]  |
| Jacket       | PVC, Black          | 0.235 in [5.97 mm] |

**Environmental Specifications**

**Temperature**

Operating Range

-40 to +80 deg C

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

**Plotted and Other Data**

Notes:

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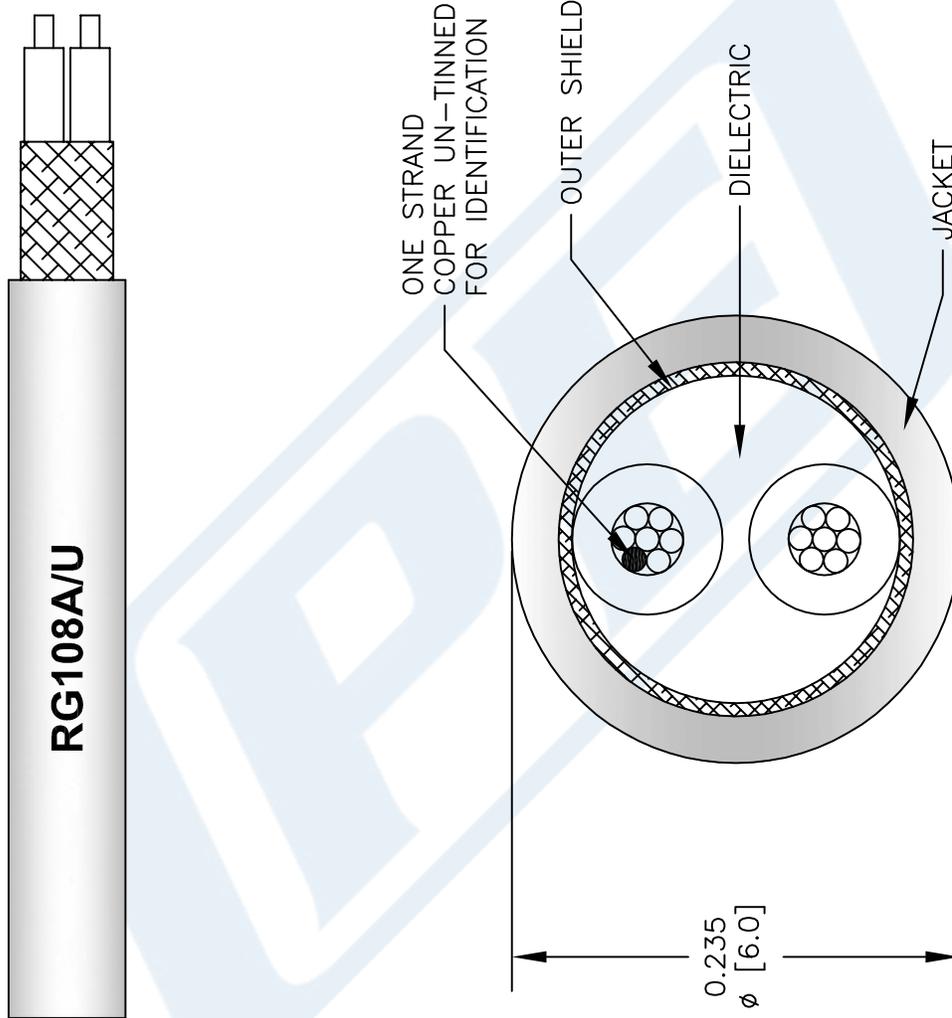
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [78 Ohm Flexible RG108 Twinax Cable Single Shielded with Black PVC Jacket RG108A/U](#)

URL: <https://www.pasternack.com/78-ohm-flexible-rg108au-pvc-jacket-tinned-copper-braid-outer-conductor-single-shielded-black-rg108a-u-p.aspx>

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# RG108A/U CAD Drawing

78 Ohm Flexible RG108 Twinax Cable Single Shielded with Black PVC Jacket



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DWG TITLE  
**RG108A/U**

REV. C FSCM NO. 53919  
 CAD FILE 100312-C SCALE N/A SIZE A 2233

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