PASTERNACK®
THE ENGINEER'S RF SOURCE



# 1.0/2.3 Plug Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, PE-P195, LMR-195, 0.195 inch



## Configuration

- 1.0/2.3 Plug Connector
- 50 Ohms
- Straight Body Geometry
- RG58, RG303, RG141, PE-C195, PE-P195, LMR-195, 0.195 inch Interface Type
- Crimp/Solder Attachment

## Features

- Max. Operating Frequency 4 GHz
- Good VSWR of 1.3:1
- Gold Plated Brass Contact
- 30 µin minimum contact plating

## Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE44243 1.0/2.3 plug connector with crimp/solder attachment for RG58, RG303, RG141, PE-C195, PE-P195, LMR-195 and 0.195 inch is part of our full line of RF components available for same-day shipping. Our 1.0/2.3 plug connector operates up to a maximum frequency of 4 GHz and offers good VSWR of 1.3:1.

Our 1.0/2.3 plug connector PE44243 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 | | 4 | GHz |
| VSWR | | | 1.3:1 | |
| Operating Voltage (AC) | | | 250 | Vrms |
| Dielectric Withstanding Voltage (AC) | | | 750 | Vrms |

### Mechanical Specifications

**Size**

| | |
|---|---|
| Length | 1.122 in [28.5 mm] |
| Width/Dia. | 0.303 in [7.70 mm] |
| Weight | 0.016 lbs [7.26 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 1.0/2.3 Plug Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, PE-P195, LMR-195, 0.195 inch PE44243

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
**Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

© 2016 Pasternack Enterprises All Rights Reserved



# 1.0/2.3 Plug Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, PE-P195, LMR-195, 0.195 inch



### Material Specifications

| Description | Material | Plating |
|---|---|---|
| Contact | Brass | Gold<br>30 µin minimum |
| Insulation | PTFE | |
| Body | Brass | Nickel<br>100 µin minimum |

## Environmental Specifications

**Temperature**

| | |
|---|---|
| Operating Range | -40 to +155 deg C |

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

## Plotted and Other Data

Notes:

1.0/2.3 Plug Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, PE-P195, LMR-195, 0.195 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: 1.0/2.3 Plug Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, PE-P195, LMR-195, 0.195 inch PE44243

URL: https://www.pasternack.com/1.0-2.3-plug-standard-rg58-connector-pe44243-p.aspx

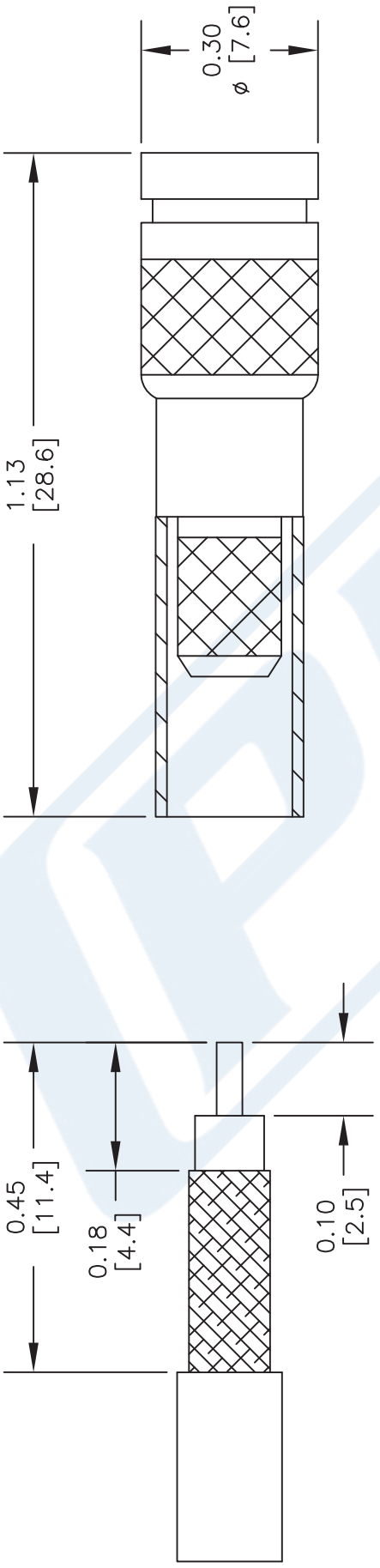
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such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

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
**Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

© 2016 Pasternack Enterprises All Rights Reserved

# PE44243 CAD Drawing

1.0/2.3 Plug Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, PE-P195, LMR-195, 0.195 inch




STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: SOLDER
FERRULE: .213" HEX CRIMP TOOL

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.

| CAD FILE | 073102 | SCALE N/A | SIZE A | 2233 |
|---|---|---|---|---|

DWG TITLE **PE44243**

FSCM NO. 53919

PASTERNACK®
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

© 2016 Pasternack Enterprises All Rights Reserved

PASTERNACK
an INFINITE brand



# 10KV Female Bulkhead Mount Connector Crimp/Solder Attachment for RG58

## RF Connectors
## Technical Data Sheet

**PE45837**

### Configuration

- 10KV Female Connector
- MIL-STD-202
- Straight Body Geometry
- Connector Interface Types: RG58
- Bulkhead

### Features

- Gold over nickel over copper Plated Brass Contact
- IP67
- High Density PE Insulator

### Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies
- High Voltage Pulsed RF Transmission

### Description

Pasternack's PE45837 10kV high voltage coaxial connector is part of our series of High Voltage coaxial interconnects. This high voltage connector minimizes the risk of electric shock due to its recessed contact design. Both cable connectors and bulkhead receptacles have recessed contacts to withstand unmated high voltage ratings. Additionally, the front mount receptacles in this family of connectors are hermetically sealed. Our 10 kV connectors operate up to maximum frequency of 300 MHz and offers good insulation resistance of 1000MOhm.These connectors allow designers to create external connections on product enclosures in a variety of high voltage transmission applications.

Our 10kV coaxial connector PE45837 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 (DC) | | | 10,000 | Vdc |
| Test Voltage (DC) | | | 15,000 | Vdc |
| Inner Conductor DC Resistance | | | 3 | mOhms |
| Outer Conductor DC Resistance | | | 2 | mOhms |
| Insulation Resistance | 1,000 | | | MOhms |

### Mechanical Specifications

**Size**

| | |
|---|---|
| Length | 2.7 in [68.58 mm] |
| Width/Dia. | 0.75 in [19.05 mm] |
| Height | 0.75 in [19.05 mm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 10KV Female Bulkhead Mount Connector Crimp/Solder Attachment for RG58 PE45837

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
**Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

© 2020 Pasternack Enterprises All Rights Reserved

PASTERNACK
an INFINITE brand



10KV Female Bulkhead Mount Connector
Crimp/Solder Attachment for RG58

## RF Connectors
## Technical Data Sheet

**PE45837**

| | |
|---|---|
| Weight | 0.016 lbs [7.26 g] |

**Material Specifications**

| Description | Material | Plating |
|---|---|---|
| Contact | Brass | Gold over nickel over copper |
| Insulation | PE (HD) | |
| Body | Brass | Tinned Copper |
| Coupling Nut | Brass | Tinned Copper |
| Gasket | Silicone | |
| Crimp Sleeve | Brass | Tinned Copper |

### Environmental Specifications

**Temperature**

| | |
|---|---|
| Operating Range | -55 to +85 deg C |
| Ingress Protection (IP) Rating | IP67 |
| Salt Spray | MIL-STD-202, Method 101, Condiiton B |

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

### Plotted and Other Data

Notes:

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: 10KV Female Bulkhead Mount Connector Crimp/Solder Attachment for RG58 PE45837

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
**Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

© 2020 Pasternack Enterprises All Rights Reserved

PASTERNACK
an INFINITE brand

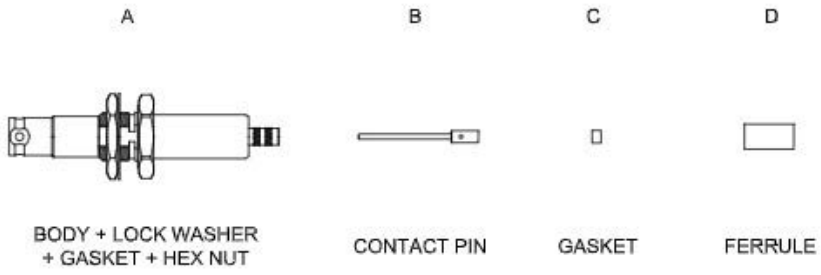


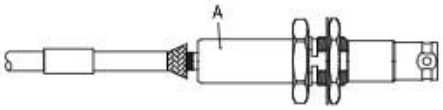
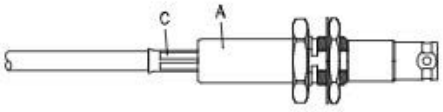
10KV Female Bulkhead Mount Connector
Crimp/Solder Attachment for RG58

**RF Connectors**
**Technical Data Sheet**

**PE45837**

**Assembly Instruction**




| DIAGRAM | ASSEMBLY INSTRUCTION |
|---|---|
|  | Step 1: STRIP AS SHOWN. |
|  | Step 2: SLIDE FERRULE " D " OVER CABLE.<br>Step 3: PUT GASKET " C " AND PIN " B " ON CENTER CONDUCTOR AND SOLDER IN " Y ". |
|  | Step 4: LOOSEN BRAIDING AND SLIDE CONNECTOR " A " IN PLACE. |
|  | Step 5: SLIDE FERRULE " C " TOWARDS THE CONNECTOR " A " AND CRIMP.<br>(USE 5.5mm/0.217inch HEX SECTION OF INSERT-B) |

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: 10KV Female Bulkhead Mount Connector Crimp/Solder Attachment for RG58 PE45837


Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
**Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com


© 2020 Pasternack Enterprises All Rights Reserved

PASTERNACK
an INFINITE brand



# 10KV Female Bulkhead Mount Connector Crimp/Solder Attachment for RG58

## RF Connectors
## Technical Data Sheet

**PE45837**

10KV Female Bulkhead Mount Connector Crimp/Solder Attachment for RG58 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: 10KV Female Bulkhead Mount Connector Crimp/Solder Attachment for RG58 PE45837

URL: https://www.pasternack.com/10kv-female-rg58-connector-pe45837-p.aspx

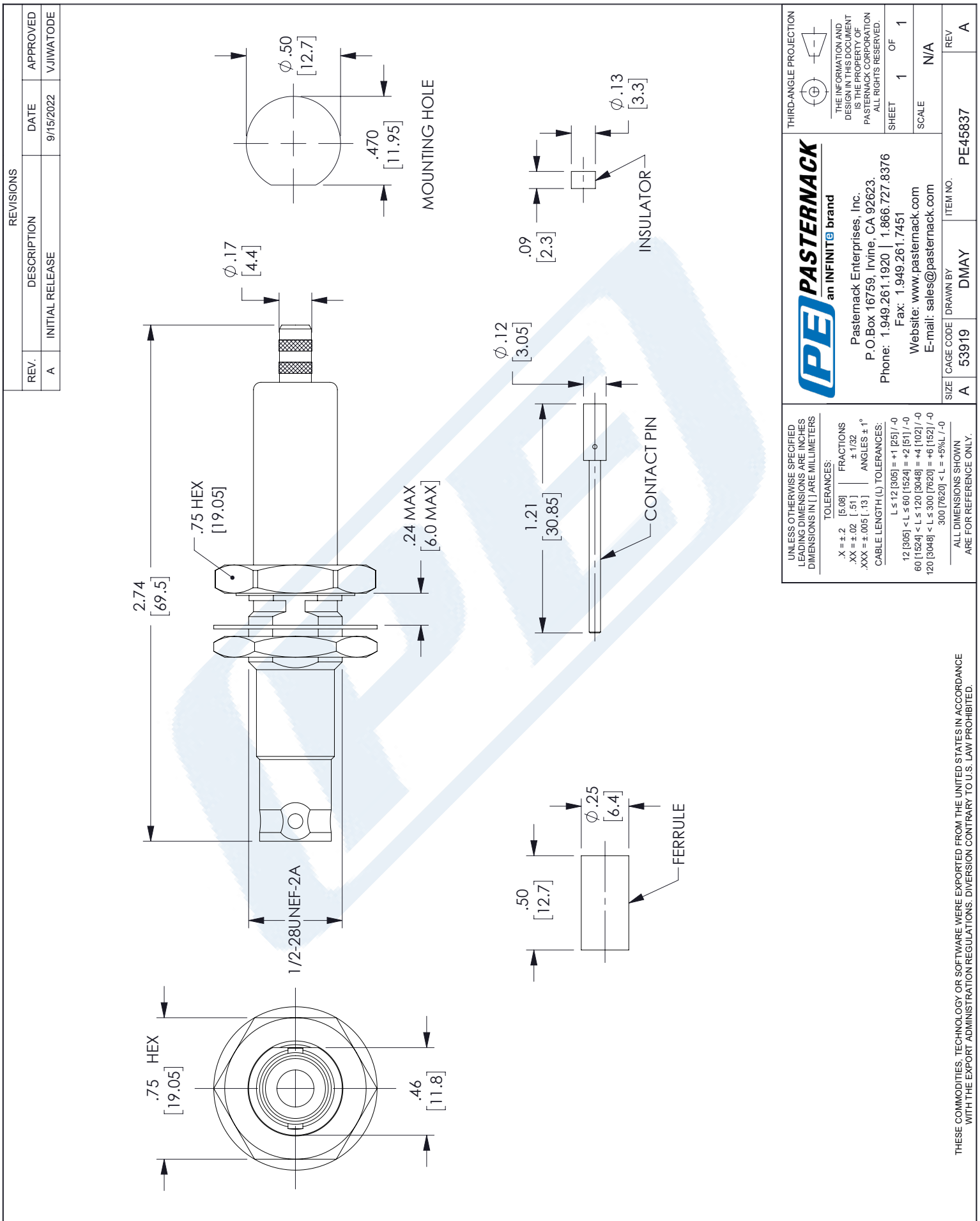
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such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

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
**Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

© 2020 Pasternack Enterprises All Rights Reserved

# PE45837 CAD Drawing

10KV Female Bulkhead Mount Connector Crimp/Solder Attachment for RG58




© 2020 Pasternack Enterprises All Rights Reserved

PASTERNACK®
THE ENGINEER'S RF SOURCE




# Flexible RG58 Coax Cable Single Shielded with Black PVC (NC) Jacket

## RF Cables Technical Data Sheet RG58C/U

## Configuration

- Flexible Cable
- 1 Shield(s)

### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Frequency Range | DC | | 5 | GHz |
| Impedance | | 50 | | Ohms |
| Velocity of Propagation | | 65.9 | | % |
| Operating Voltage (AC) | | | 1,900 | Vrms |
| Nominal Capacitance | | 30.8 [101.05] | | pF/ft [pF/m] |

### Performance by Frequency Band

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---|---|---|---|---|---|---|
| Frequency | 0.01 | 0.1 | 1 | 5 | | GHz |
| Attenuation, Typ | 1.4 | 4.9 | 20 | 60 | | dB/100ft |
| | 4.59 | 16.08 | 65.62 | 196.85 | | dB/100m |
| Input Power (CW), Max | | | 44 | | | Watts |

### Mechanical Specifications

| | |
|---|---|
| Diameter | 0.195 in [4.95 mm] |
| Weight | 0.025 lbs/ft [0.04 Kg/m] |
| Min. Bend Radius (Installation) | 0.98 in [24.89 mm] |
| Min. Bend Radius (Repeated) | 1.96 in [49.78 mm] |

### Construction Specifications

| Description | Material and Plating | Diameter |
|---|---|---|
| Inner Conductor | Copper, Tin, 19 Strands | 0.036 in [0.91 mm] |
| Conductor Type | Stranded | |
| Dielectric | PE | 0.116 in [2.95 mm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Flexible RG58 Coax Cable Single Shielded with Black PVC (NC) Jacket RG58C/U

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
**Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

© 2017 Pasternack Enterprises All Rights Reserved



# Flexible RG58 Coax Cable Single Shielded with Black PVC (NC) Jacket



| | | |
|---|---|---|
| First Shield | Tinned Copper Braid | 0.138 in [3.51 mm] |
| Jacket | PVC (NC), Black | 0.195 in [4.95 mm] |

## Environmental Specifications

**Temperature**

| | |
|---|---|
| Operating Range | -40 to +80 deg C |

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

## Plotted and Other Data

Notes:

Flexible RG58 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.

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: Flexible RG58 Coax Cable Single Shielded with Black PVC (NC) Jacket RG58C/U

URL: https://www.pasternack.com/flexible-0.195-rg58-50-ohm-coax-cable-pvc-jacket-rg58c-u-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.

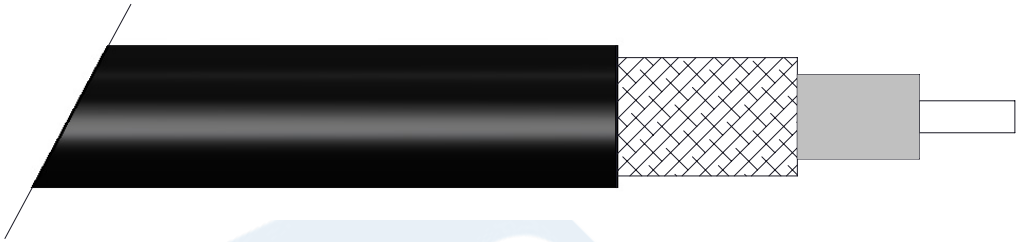
Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
**Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

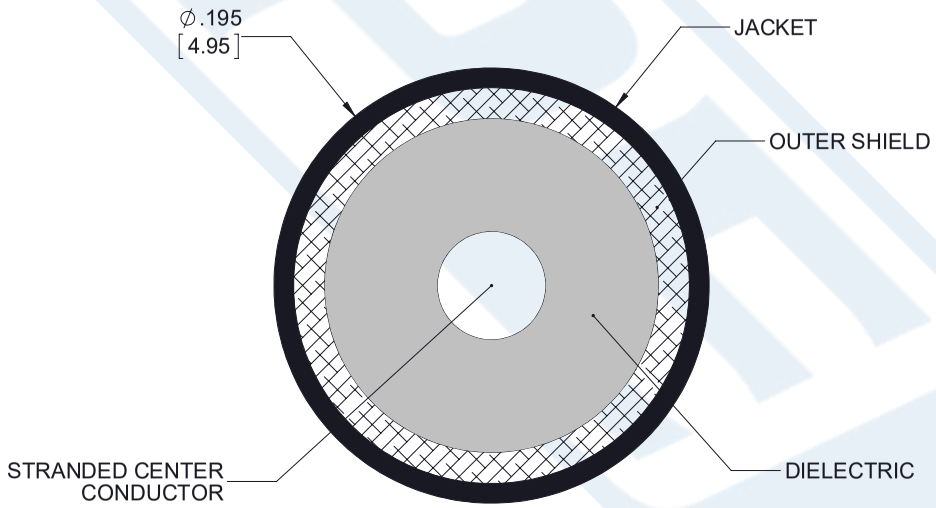
© 2017 Pasternack Enterprises All Rights Reserved

© 2017 Pasternack Enterprises All Rights Reserved

# RG58C/U CAD Drawing

Flexible RG58 Coax Cable Single Shielded with Black PVC (NC) Jacket






**SECTION VIEW**

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

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

PASTERNACK®
THE ENGINEER'S RF SOURCE
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

DWG TITLE

RG58C/U

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].

| CAGE CODE 53919 | CAD FILE 091817 | SCALE N/A | SIZE A | 7361 |
|---|---|---|---|---|