## Double Banana Plug Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, .195 inch

**RF Connectors**
**Technical Data Sheet**                                                        **PE4301**

### Configuration

- Double Banana Plug Connector
- 50 Ohms
- Straight Body Geometry

- Connector Interface Types: PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, .195 inch

### Features

- Nickel Plated Brass Contact

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE4301 Double Banana plug connector with crimp/solder attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195 and .195 inch is part of our full line of RF components available for same-day shipping.

Our Double Banana plug connector PE4301 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 | 2.5 in [63.5 mm] |
| Width/Dia. | 1.175 in [29.85 mm] |
| Weight | 0.0447 lbs [20.28 g] |

### Material Specifications

| Description | Material | Plating |
|---|---|---|
| Contact | Brass | Nickel |
| Insulation | ABS | |
| Body | Brass | Nickel |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Double Banana Plug Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, .195 inch PE4301

**Environmental Specifications**

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

**Plotted and Other Data**
   Notes:

Double Banana Plug Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, .195 inch 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: Double Banana Plug Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, .195 inch PE4301
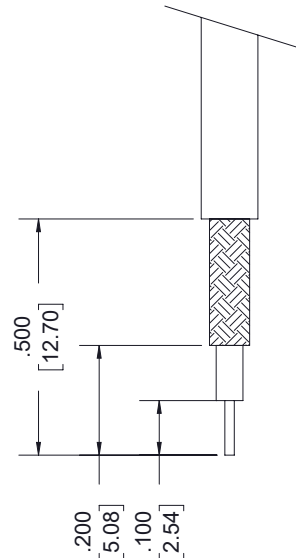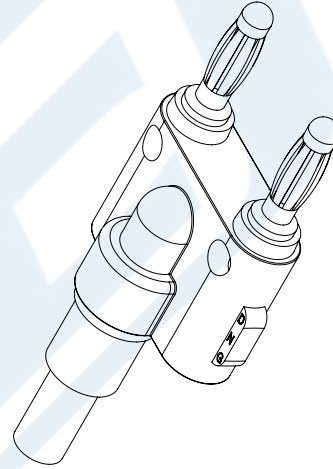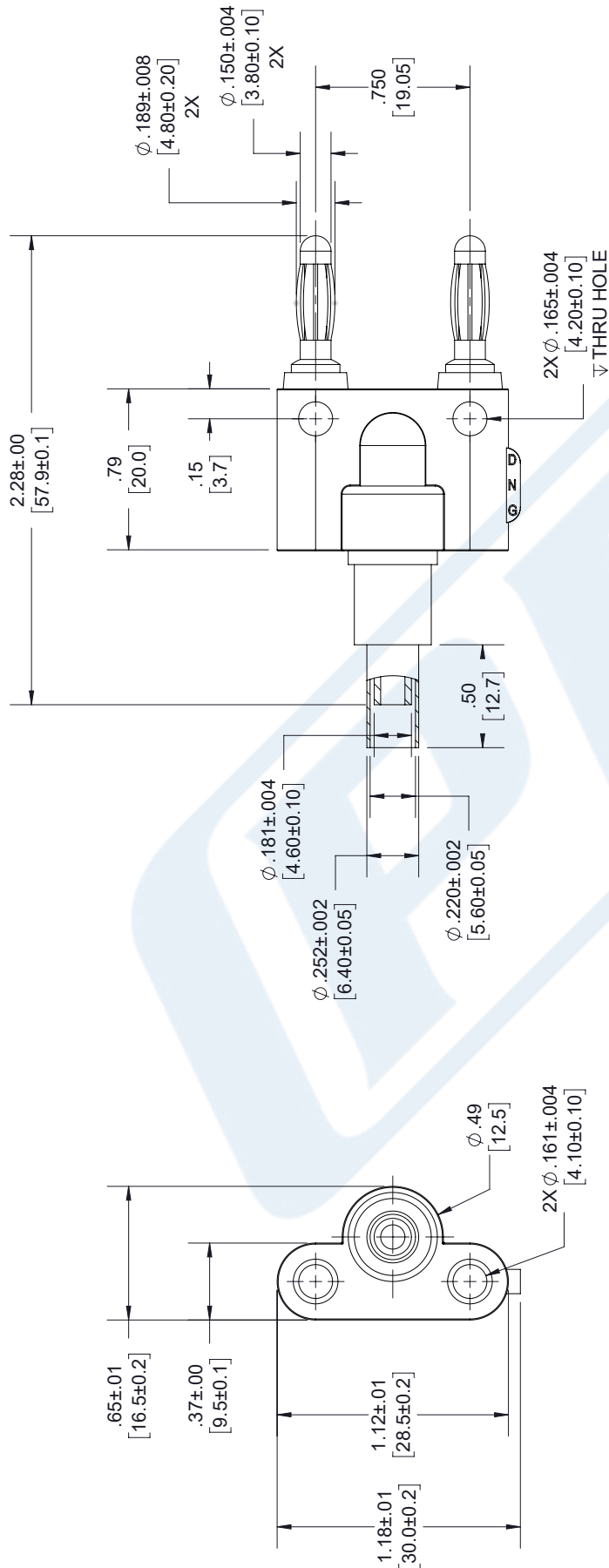
URL: https://www.pasternack.com/double-banana-plug-pe-c195-pe-p195-rg141-rg303-connector-pe4301-p.aspx

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

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# **PE4301** CAD Drawing

Double Banana Plug Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, .195 inch

**PASTERNACK®**
an INFINITE brand

| SIZE | CAGE CODE | DRAWN BY | ITEM NO. |
|------|-----------|----------|----------|
| A | 53919 | K.DANG | PE4301 |

THIRD-ANGLE PROJECTION

SHEET 1 OF 1
SCALE N/A
REV A

**REVISIONS**

| REV. | DESCRIPTION | DATE | APPROVED |
|------|-------------|------|----------|
| A | PCR 4301 | 1/10/2020 | S.ELLIS |

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE 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.

∅ .189±.008 [4.80±0.20] 2X
∅ .150±.004 [3.80±0.10] 2X
.750 [19.05]
2X ∅ .165±.004 [4.20±0.10] ⟱ THRU HOLE
2.28±.00 [57.9±0.1]
.79 [20.0]
.15 [3.7]

D
N
G

.50 [12.7]
∅ .181±.004 [4.60±0.10]
∅ .252±.002 [6.40±0.05]
∅ .220±.002 [5.60±0.05]

∅ .49 [12.5]
2X ∅ .161±.004 [4.10±0.10]
.65±.01 [16.5±0.2]
.37±.00 [9.5±0.1]
1.12±.01 [28.5±0.2]
1.18±.01 [30.0±0.2]

**STRIPPING DIMENSIONS**

.500 [12.70]
.200 [5.08]
.100 [2.54]

NOTES:
1. CABLE ATTACHMENT:
   • OUTER: CRIMP.
   • INNER: SOLDER.
2. CRIMP SIZE REQUIRED:
   • FERRULE: .213 [5.41] HEX. CRIMP TOOL.
   • CONTACT: SOLDER.

T-Rev.D

# PASTERNACK
an INFINITe brand

Double Banana Plug Connector Crimp/Solder Attachment for
PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, .195 inch

## RF Connectors
## Technical Data Sheet

**PE4301**

### Configuration

- Double Banana Plug Connector
- 50 Ohms
- Straight Body Geometry

- Connector Interface Types: PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, .195 inch

### Features

- Nickel Plated Brass Contact

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE4301 Double Banana plug connector with crimp/solder attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195 and .195 inch is part of our full line of RF components available for same-day shipping.

Our Double Banana plug connector PE4301 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 | 2.5 in [63.5 mm] |
| Width/Dia. | 1.175 in [29.85 mm] |
| Weight | 0.0447 lbs [20.28 g] |

### Material Specifications

| Description | Material | Plating |
|---|---|---|
| Contact | Brass | Nickel |
| Insulation | ABS | |
| Body | Brass | Nickel |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Double Banana Plug Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, .195 inch PE4301

Double Banana Plug Connector Crimp/Solder Attachment for
PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, .195 inch

## RF Connectors
## Technical Data Sheet                                        PE4301

**Environmental Specifications**

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

**Plotted and Other Data**
   Notes:

Double Banana Plug Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, .195 inch 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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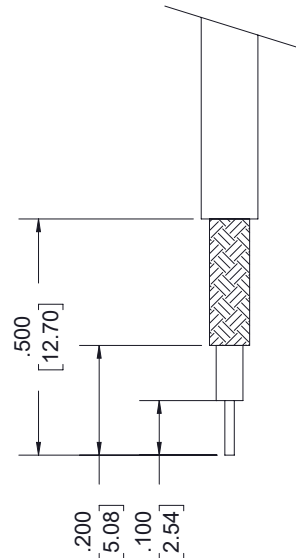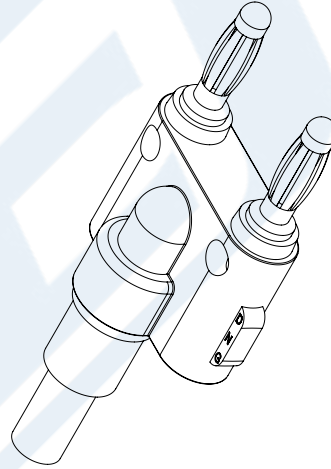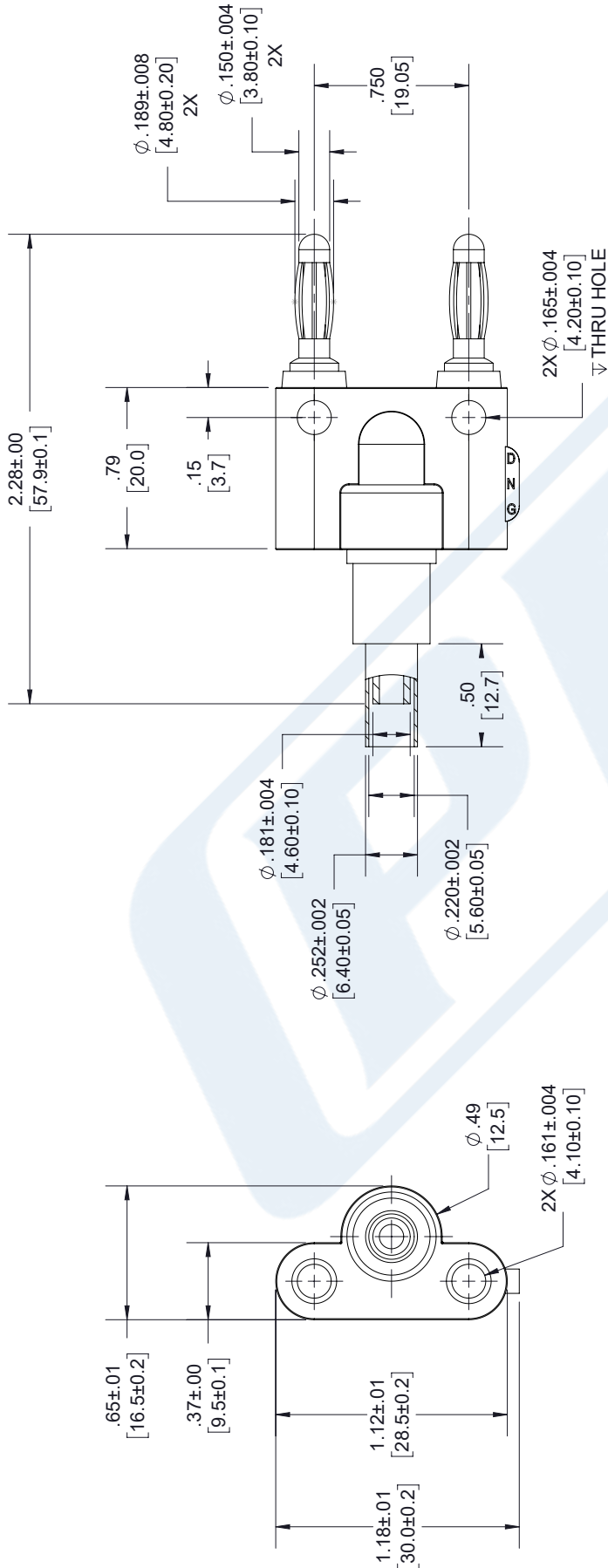
URL: https://www.pasternack.com/double-banana-plug-pe-c195-pe-p195-rg141-rg303-connector-pe4301-p.aspx

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# PE4301 CAD Drawing

## Double Banana Plug Connector Crimp/Solder Attachment for PE-C195, PE-P195, RG58, RG141, RG303, LMR-195, .195 inch



∅.189±.008 [4.80±0.20] 2X

∅.150±.004 [3.80±0.10] 2X

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2X ∅.165±.004 [4.20±0.10] ⩫ THRU HOLE

2.28±.00 [57.9±0.1]

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.15 [3.7]

D N G

.50 [12.7]

∅.181±.004 [4.60±0.10]

∅.220±.002 [5.60±0.05]

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2X ∅.161±.004 [4.10±0.10]

.65±.01 [16.5±0.2]

.37±.00 [9.5±0.1]

1.12±.01 [28.5±0.2]

1.18±.01 [30.0±0.2]

**STRIPPING DIMENSIONS**

.500 [12.70]

.200 [5.08]

.100 [2.54]

NOTES:
1. CABLE ATTACHMENT:
   - OUTER: CRIMP.
   - INNER: SOLDER.
2. CRIMP SIZE REQUIRED:
   - FERRULE: .213 [5.41] HEX. CRIMP TOOL.
   - CONTACT: SOLDER.

CAGE CODE 53919

DRAWN BY K.DANG

ITEM NO. PE4301

SIZE A

REV A

SHEET 1 OF 1

SCALE N/A

THIRD-ANGLE PROJECTION

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

TOLERANCES:
.X = ± .2 [5.08]
.XX = ± .02 [.51]
.XXX = ± .005 [.13]

FRACTIONS ± 1/32
ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:
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300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

## REVISIONS

| REV. | DESCRIPTION | DATE | APPROVED |
|------|-------------|------|----------|
| A | PCR 4301 | 1/10/2020 | S.ELLIS |

PASTERNACK® an INFINITE brand

T-Rev.D

# 40kV Flexible RG303 High Voltage Coax Cable
# Single Shielded with Red PUR Jacket

## RF Cables
## Technical Data Sheet

## RG303HV

### Configuration

- 1 Shield(s)

### Features

- Voltage rating up to 40kV
- Low Signal Attenuation
- Robust Insulation
- Flexible and Durable

### Applications

- Semiconductor Testing
- Radar Systems
- Broadcast Stations
- Research and Development
- Military and Defense

### Description

RG303HV part number from Pasternack is a coax cable that is flexible. Pasternack's flexible coax RF cable has an im-ped-ance of 50 Ohm and PE dielectric. Our RG303HV coax cable is constructed with a 0.169-inch jacket made of FEP. Our coax cable from Pasternack has a maximum frequency of 3000 MHz. This red colored coax cable has a 0.138-inch shield layer of Silver Copper. Additional specifications for this RG303HV single-shielded RF coaxial cable are on our downloadable PDF datasheet above. Our RG303HV coax cable has a maximum operating temperature of 70 degrees C. This 40kV red colored flexible RF cable with a 50 Ohm impedance has a typical insertion loss/maximum attenuation of 0.22 dB/ft at a frequency of 3000 MHz. The RG303HV flexible RF cable has a silver center conductor with a copper clad aluminum conductor plating.

The RG303 high-voltage RF cable is engineered specifically for radio frequency applications that require the handling of ex-tremely high voltages. With a rated voltage of 40kV, this cable is designed to safely and efficiently transmit high-voltage RF signals. It is commonly utilized in industrial applications where reliable and robust RF signal distribution is critical. The RG303 cable is constructed with high-quality insulation materials and conductors to minimize signal loss and ensure optimal perfor-mance. Adhering to safety guidelines and proper installation practices are essential when working with this cable to maintain electrical safety and preserve signal integrity. Pasternack RG303HV coax cables are part of over 40,000 RF, microwave, and millimeter wave components. These flexible RF cables and our other RF parts are available for same-day shipping worldwide. Custom RF cable assemblies using RG303HV other coax can be built and shipped the same business day as well.

### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Frequency Range | DC | | 3 | GHz |
| Impedance | | 50 | | Ohms |
| Operating Voltage (DC) | | | 40,000 | Vdc |
| Nominal Capacitance | | 308.4 [1,011.81] | | pF/ft [pF/m] |
| Test Voltage (Conductor/Braid) | | 80 | | kVoc/1min |
| Test Voltage (Spark Test, Core) | | 15 | | kVac |
| Test Voltage (Spark Test, Jacket) | | 5 | | kVac |
| Test Voltage (Type Test) | | 64 | | kVoc |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 40kV Flexible RG303 High Voltage Coax Cable Single Shielded with Red PUR Jacket RG303HV
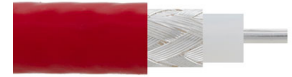
## 40kV Flexible RG303 High Voltage Coax Cable
## Single Shielded with Red PUR Jacket

# RF Cables
# Technical Data Sheet
# RG303HV

### Performance by Frequency Band

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---|---|---|---|---|---|---|
| Frequency | 0.05 | 0.4 | 1 | 3 | | GHz |
| Attenuation, Typ | 2.48 | 7.35 | 12.09 | 22.52 | | dB/100ft |
| | 8.14 | 24.11 | 39.67 | 73.88 | | dB/100m |

### Mechanical Specifications

| | |
|---|---|
| Diameter | 0.169 in [4.29 mm} |
| Weight | 0.027 lbs/ft [0.04 kg/m] |
| Min. Bend Radius (Repeated) | 0.788 in [20.02 mm] |

### Construction Specifications

| Description | Material and Plating | Diameter |
|---|---|---|
| Inner Conductor | Silver, Copper Clad Aluminum, Strand | 0.037 in [0.94 mm] |
| Conductor Type | | |
| Dielectric | FEP | 0.116 in [2.95 mm] |
| First Shield | Silver Copper | 0.138 in [3.51 mm] |
| Jacket | FEP, Red | 0.169 in [4.29 mm] |

### Environmental Specifications
**Temperature**

| | |
|---|---|
| Operating Range | -65 to +200 deg C |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 40kV Flexible RG303 High Voltage Coax Cable Single Shielded with Red PUR Jacket RG303HV

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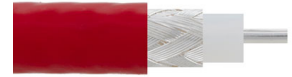
## 40kV Flexible RG303 High Voltage Coax Cable
## Single Shielded with Red PUR Jacket

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

**Plotted and Other Data**
  Notes:
  • 1) All tests preformed in accordacne with MIL-DTL-17 (current issue).
    2) All materials are RoHS and REACH compliant.

40kV Flexible RG303 High Voltage Coax Cable Single Shielded with Red PUR 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: 40kV Flexible RG303 High Voltage Coax Cable Single Shielded with Red PUR Jacket RG303HV

URL: https://www.pasternack.com/flexible-rg303-fep-jacket-silver-copper-outer-conductor-single-shielded-rg303hv-p.aspx

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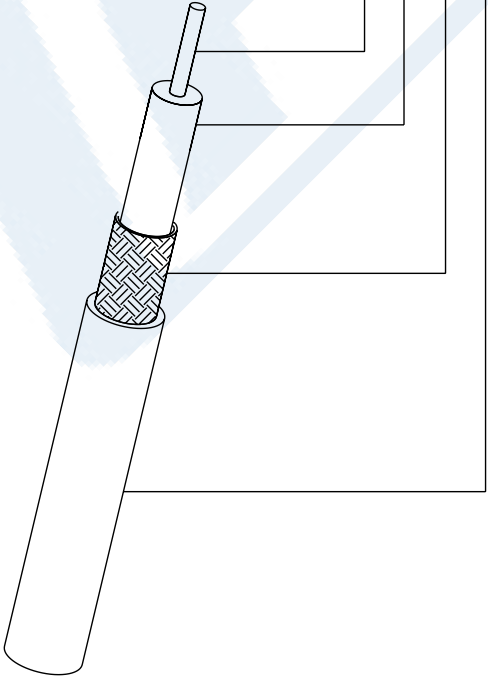
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# RG303HV CAD Drawing

## 40kV Flexible RG303 High Voltage Coax Cable Single Shielded with Red PUR Jacket

| Center Conductor | Ø .037 [0.94] | Silver Copper |
| Dielectric | Ø .116 [2.95] | FEP (Fluorinated Ethylene Propylene) |
| Braid | Ø .138 [3.51] | Silver Copper |
| Jacket | Ø .169 [4.29] | Red FEP (Fluorinated Ethylene Propylene) |



### REVISION

| ZONE | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED |
|------|-----|-------------|------|------------|----------|
| | A | INITIAL RELEASE | 05/05/2023 | PSRINIVAS | AGANWANI |

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Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

| INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 | | |
|---|---|---|
| SCALE NONE | SHEET 1 OF 1 | |

DESCRIPTION
Flexible RG303 High Voltage Coax Cable Single Shielded with Red PUR Jacket

| SIZE A | CAGE CODE 53919 | DRAWN BY PSRINIVAS | ITEM NO. | REV A |
|--------|------------------|--------------------|----------|-------|

RG303HV

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

TOLERANCES:
.X = ± .2      [ 5 ]         FRACTIONS:
.XX = ± .02   [ .5 ]          ± 1/32
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>60 [1524] ≤ 120 [3048] = +4 [102] / -0
>120 [3048] ≤ 300 [7620] = +6 [152] / -0
>300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY
AND SUBJECT TO CHANGE WITHOUT NOTICE.

T-Rev.D2

RG303HV  REV 1