PASTERNACK®
THE ENGINEER'S RF SOURCE



# MHV Male Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, PE-P195, LMR-195, 0.195 inch

## RF Connectors Technical Data Sheet PE4093

## Configuration

- MHV Male Connector
- MIL-STD-348A
- 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 300 MHz
- 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 PE4093 MHV male 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 MHV male connector operates up to a maximum frequency of 300 MHz and offers good VSWR of 1.3:1.

Our MHV male connector PE4093 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 | | 300 | MHz |
| VSWR | | | 1.3:1 | |
| Operating Voltage (AC) | | | 1,400 | Vrms |

### Mechanical Specifications

**Size**

| | |
|---|---|
| Length | 1.508 in [38.3 mm] |
| Width/Dia. | 0.57 in [14.48 mm] |
| Weight | 0.038 lbs [17.24 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: MHV Male Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, PE-P195, LMR-195, 0.195 inch PE4093

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# MHV Male 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 |
| Coupling Nut | Brass | Nickel<br>100 µin minimum |
| Crimp Sleeve | 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:

MHV Male 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: MHV Male Connector Crimp/Solder Attachment for RG58, RG303, RG141, PE-C195, PE-P195, LMR-195, 0.195 inch PE4093

URL: https://www.pasternack.com/mhv-male-rg58-rg303-rg141-pe-c195-pe-p195-lmr-195-connector-pe4093-p.aspx

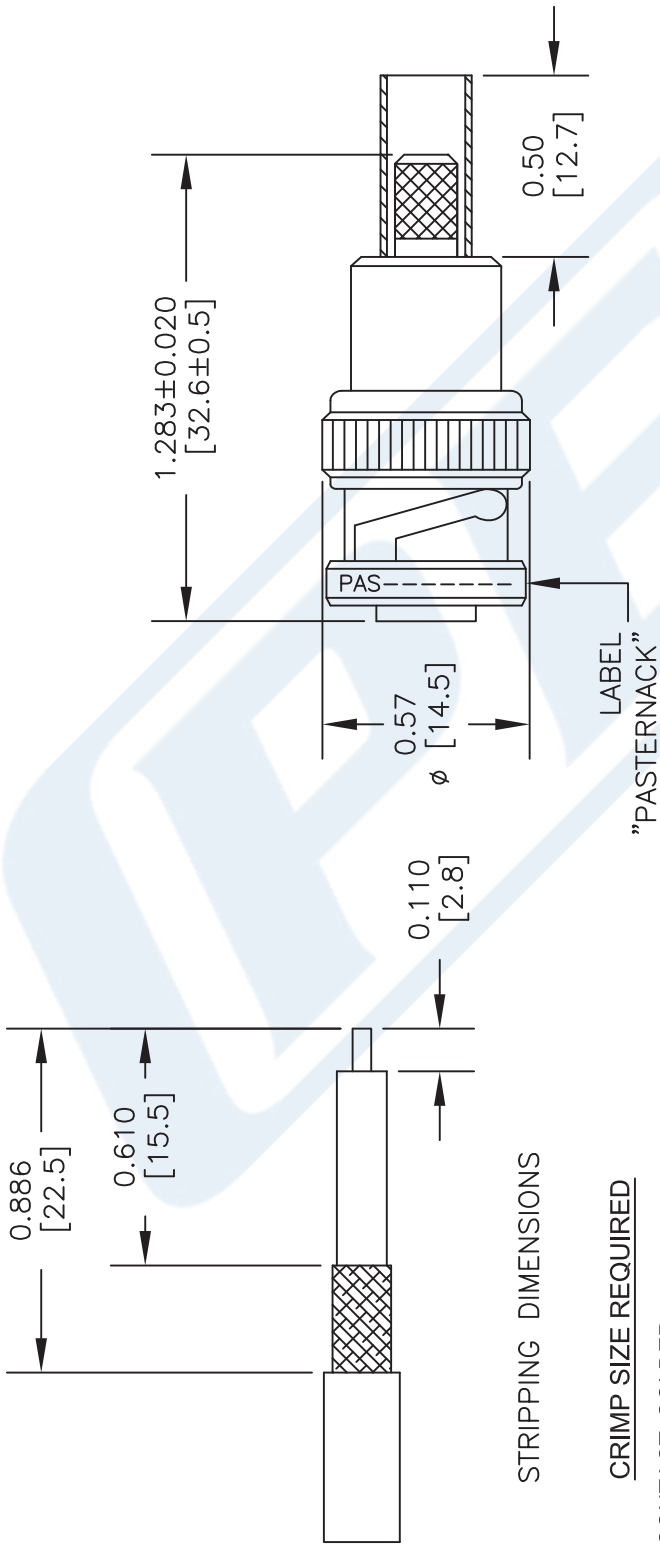
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# PE4093 CAD Drawing

MHV Male 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

| STANDARD TOLERANCES | |
|---|---|
| .X | ±0.2 |
| .XX | ±0.1 |
| .XXX | ±0.05 |

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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].

DWG TITLE **PE4093**

CAD FILE 040116 | SCALE N/A | SIZE A | 3045

FSCM NO. 53919


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# 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

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



## 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

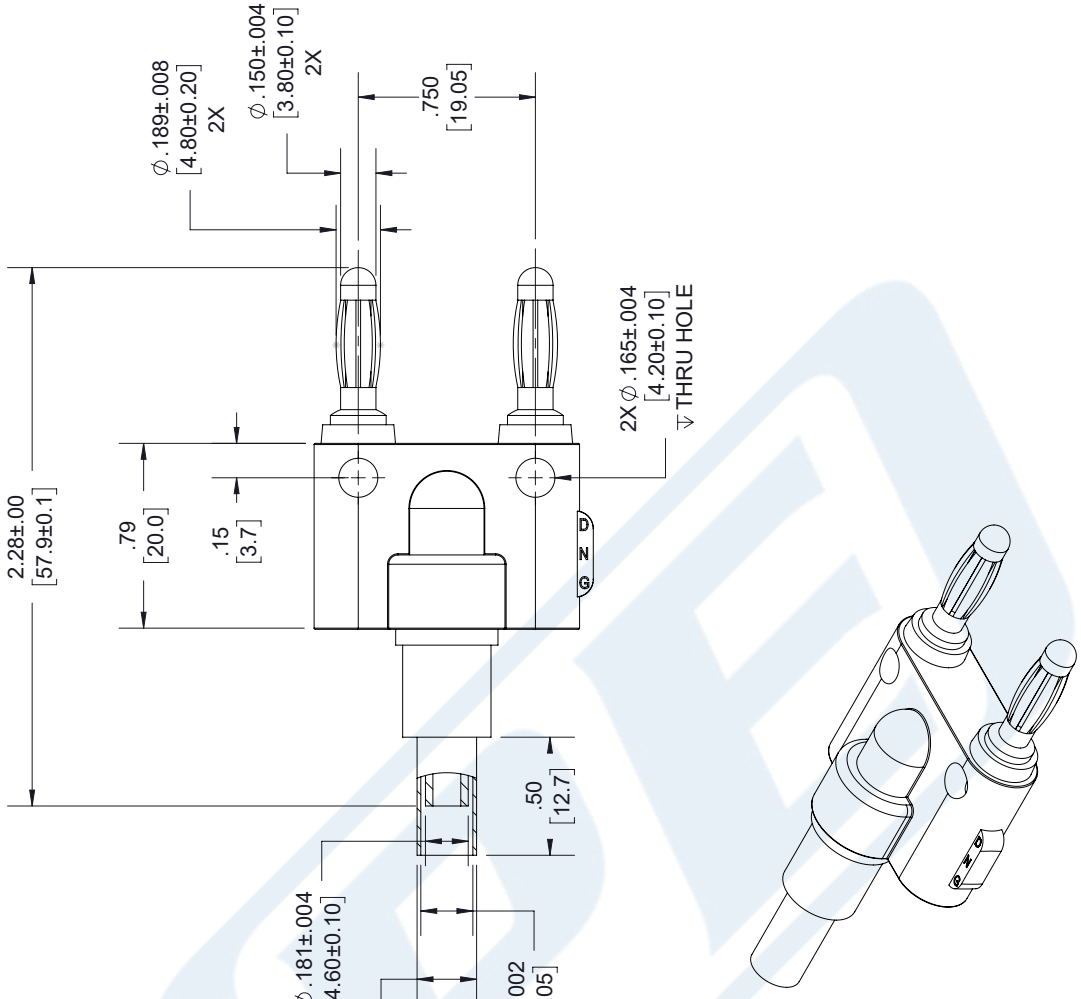
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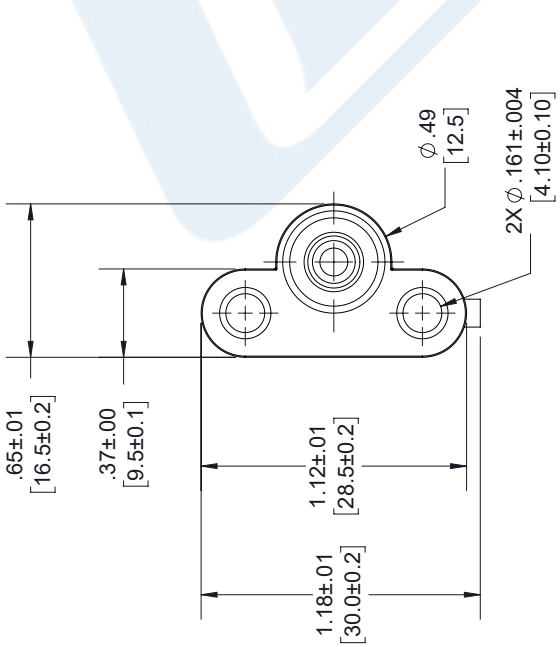
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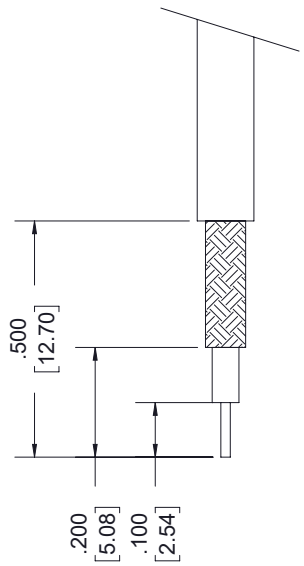
# PE4301 CAD Drawing

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






**STRIPPING DIMENSIONS**

NOTES:

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

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| 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 | ± 1/32 |
| .XX = ± .02 | [ .51 ] | ANGLES | ± 1° |
| .XXX = ± .005 | [ .13 ] | | |

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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THIRD-ANGLE PROJECTION

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

SHEET 1 OF 1

SCALE N/A

T-Rev.D

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# 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-pedance 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 extremely 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 performance. 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

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# 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

## RF Cables
## Technical Data Sheet

**RG303HV**

**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

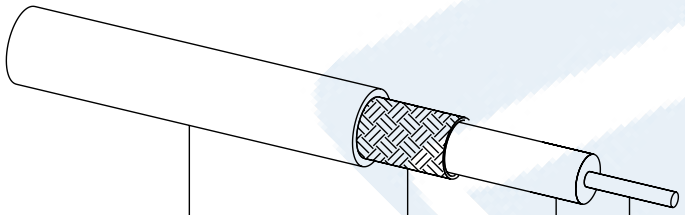
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| REVISION | | | | | |
|---|---|---|---|---|---|
| ZONE | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED |
| | A | INITIAL RELEASE | 05/05/2023 | PSRINIVAS | AGANWANI |



| | | |
|---|---|---|
| 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) |

# RG303HV CAD Drawing

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

RG303HV REV 1

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TOLERANCES:

.X = ±.2 [ 5 ]
.XX = ±.02 [ .5 ]
.XXX = ±.005 [ .13 ]

FRACTIONS ± 1/32
ANGLES ± 1°

CABLE LENGTH TOLERANCES:

≤12 [305] = +1 [25] / -0
>12 [305] ≤ 60 [1524] = +2 [51] / -0
>60 [1524] ≤ 120 [3048] = +4 [102] / -0
>120 [3048] ≤ 300 [7620] = +6 [152] / -0
>300 [7620] = +5% / -0

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

| SCALE | SHEET |
|---|---|
| NONE | 1 OF 1 |

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

| SIZE | CAGE CODE | DRAWN BY | ITEM NO. | REV |
|---|---|---|---|---|
| A | 53919 | PSRINIVAS | RG303HV | A |

T-Rev.D2