



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](#)



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RF Connectors Technical Data Sheet

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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](#)

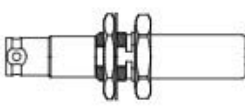
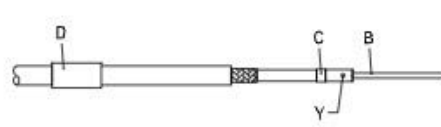
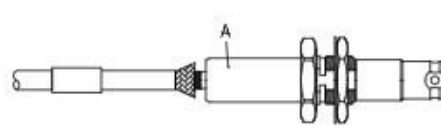
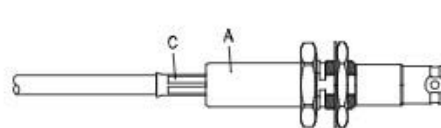
10KV Female Bulkhead Mount Connector Crimp/Solder Attachment for RG58



RF Connectors Technical Data Sheet

PE45837

Assembly Instruction

A	B	C	D
			
BODY + LOCK WASHER + GASKET + HEX NUT	CONTACT PIN	GASKET	FERRULE
DIAGRAM	ASSEMBLY INSTRUCTION		
	Step 1: STRIP AS SHOWN.		
	Step 2: SLIDE FERRULE "D" OVER CABLE. 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. (USE 5.5mm/0.217inch HEX SECTION OF INSERT-B)		

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RF Connectors Technical Data Sheet

PE45837

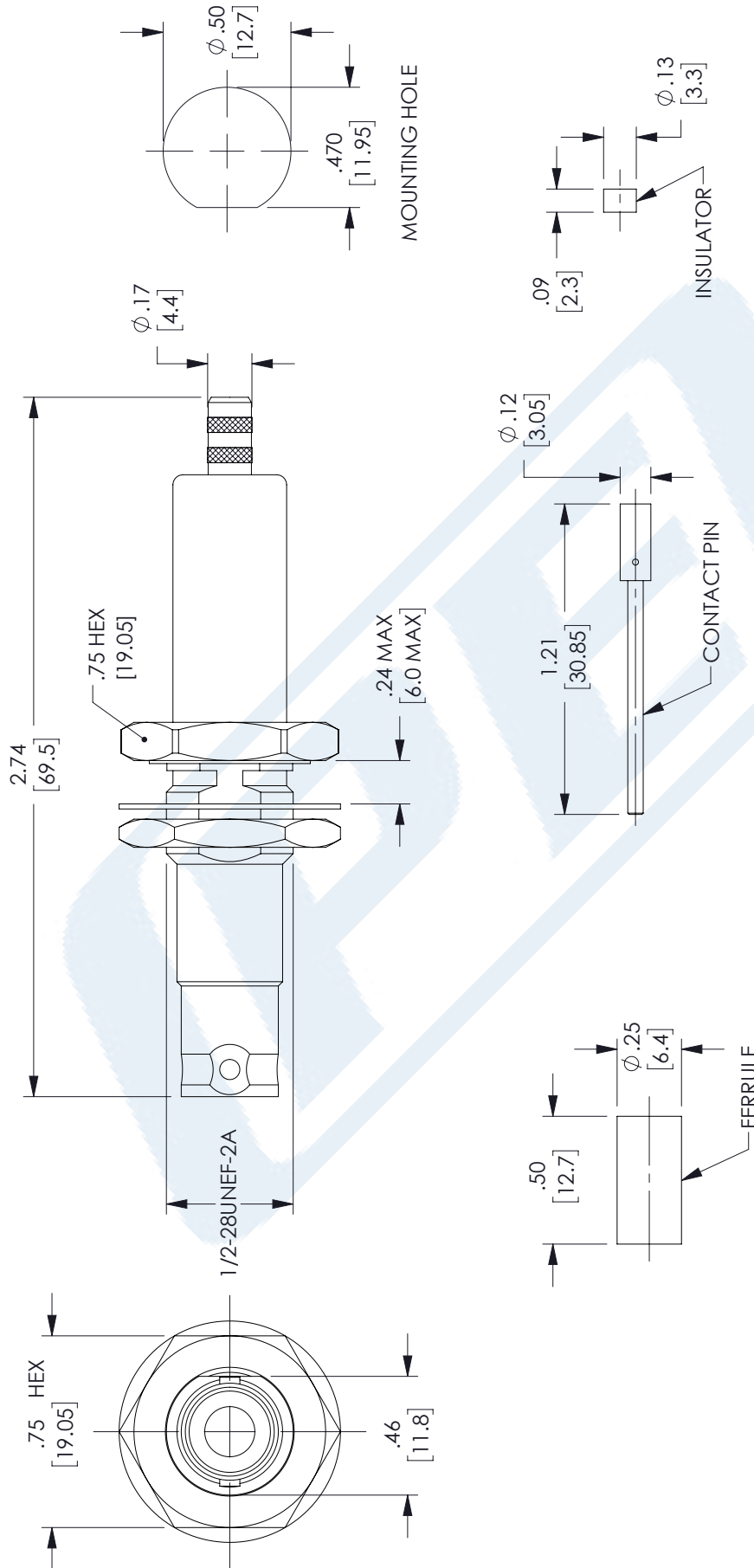
10KV Female Bulkhead Mount Connector Crimp/Solder Attachment for RG58 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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

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.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	9/15/2022	VJWATODE



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.

PE PASTERNAK
an INFINITE brand

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1
SCALE N/A

SIZE A CAGE CODE 53919 DRAWN BY DMAY ITEM NO. PE45837 REV A

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SHV jack crimp bulkhead, IP67 mated, for RG58, JBY195, LMR195

RF Connectors Technical Data Sheet

PE45856

Configuration

- SHV Jack Connector
- MIL-STD-348B
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG58
- Bulkhead
- 7/16 Inch Hex

Features

- Max. Operating Frequency 300 MHz
- Gold over Nickel over copper Plated Brass Contact

Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

Description

Pasternack's PE45856 SHV jack bulkhead connector with crimp/solder attachment for RG58 is part of our full line of RF components available for same-day shipping. Our SHV jack connector operates up to a maximum frequency of 300 MHz. This SHV bulkhead connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Our SHV jack bulkhead connector PE45856 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
Operating Voltage (AC)			3,500	Vrms
Dielectric Withstanding Voltage (AC)			5,000	Vrms
Inner Conductor DC Resistance			2	mOhms
Outer Conductor DC Resistance			1.5	mOhms

Mechanical Specifications

Size

Length	1.94 in [49.28 mm]
Width/Dia.	0.68 in [17.27 mm]
Height	0.68 in [17.27 mm]
Weight	0.048 lbs [21.77 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SHV jack crimp bulkhead, IP67 mated, for RG58, JBY195, LMR195 PE45856](#)



SHV jack crimp bulkhead, IP67 mated, for RG58, JBY195, LMR195

RF Connectors Technical Data Sheet

PE45856

Material Specifications

Description	Material	Plating
Contact	Brass	Gold over Nickel over copper
Insulation	Teflon	
Body	Brass	Tinned Copper
Coupling Nut	Brass	Tinned Copper
Gasket	Silicon	
Crimp Sleeve	Brass	Tinned Copper
Washer	Brass	Tinned Copper BNC8105-6/W

Environmental Specifications

Temperature

Operating Range

-65 to +165 deg C

Thermal Shock

MIL-STD-202, Method 107, Condition B

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

Plotted and Other Data

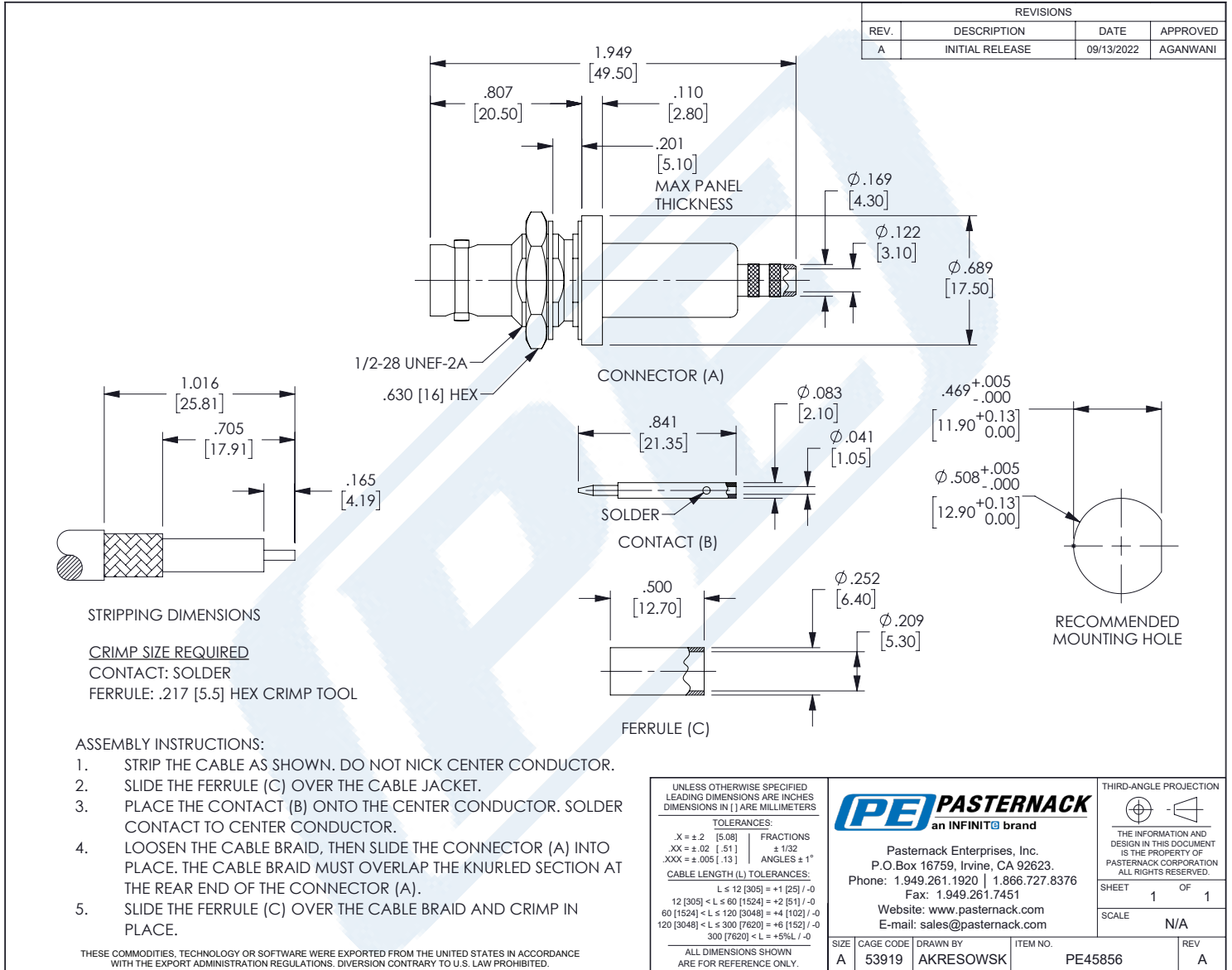
Notes:

SHV jack crimp bulkhead, IP67 mated, for RG58, JBY195, LMR195 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: [SHV jack crimp bulkhead, IP67 mated, for RG58, JBY195, LMR195 PE45856](#)

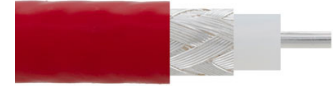
URL: <https://www.pasternack.com/shv-jack-rg58-connector-pe45856-p.aspx>

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T-Rev.D

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



RG303HV

Configuration

- Flexible Cable
- 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 impedance 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 (AC)			1,400	Vrms
Operating Voltage (DC)			40,000	Vdc
Dielectric Withstanding Voltage (AC)			1,900	Vrms
Nominal Capacitance		28.65 [94]		pF/ft [pF/m]
Test Voltage (Conductor/Braid)		80		kVoc/1min
Test Voltage (Spark Test, Core)		15		kVac

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



RG303HV

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Test Voltage (Spark Test, Jacket)		5		kVac
Test Voltage (Type Test)		64		kVoc

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 (Installation)	0.787 in [19.99 mm]
Min. Bend Radius (Repeated)	1.77 in [44.96 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Silver, Copper Clad Aluminum, Strand	0.037 in [0.94 mm]
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

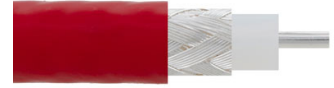
Temperature Operating Range	-65 to +200 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

- Notes:
- 1) All tests performed in accordance 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



RG303HV

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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: [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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RG303HV CAD Drawing

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

