



10KV Male Connector Crimp/Solder Attachment for RG58

RF Connectors Technical Data Sheet

PE45836

Configuration

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

Features

- Gold over nickel over copper Plated Beryllium Copper Contact
- High Density PE Insulator

Applications

- General Purpose Test
- Custom Cable Assemblies
- High Voltage Pulsed RF Transmission

Description

Pasternack's PE45836 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 PE45836 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	2.5 in [63.5 mm]
Width/Dia.	0.57 in [14.48 mm]
Height	0.57 in [14.48 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: [10KV Male Connector Crimp/Solder Attachment for RG58 PE45836](#)



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Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over nickel over copper
Contact Spring		Tinned Copper
Insulation	PE (HD)	
Body	Brass	Nickel Over Copper
Coupling Nut	Brass	Nickel Over Copper
Gasket	Silicone	
Crimp Sleeve	Copper	Nickel over Copper
Washer	Brass	Tinned Copper

Environmental Specifications

Temperature

Operating Range

-55 to +85 deg C

Salt Spray

MIL-STD-202, Method 101, Condition 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 Male Connector Crimp/Solder Attachment for RG58 PE45836](#)

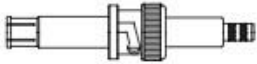
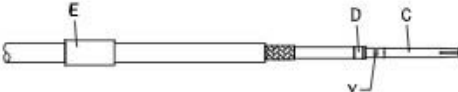
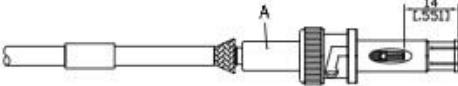
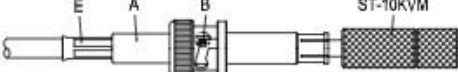


10KV Male Connector Crimp/Solder Attachment for RG58

RF Connectors Technical Data Sheet

PE45836

Assembly Instruction

A	B	C	D	E
				
BODY	INTERFACE GASKET	CONTACT PIN	GASKET	FERRULE
DIAGRAM		ASSEMBLY INSTRUCTION		
		Step 1: STRIP AS SHOWN.		
		Step 2: SLIDE FERRULE "E" OVER CABLE. Step 3: PUT GASKET "D" AND PIN "C" ON CENTER CONDUCTOR AND SOLDER IN "Y". ※ GASKET MUST BE UNDER COMPRESSION AFTER SOLDERING IS COMPLETED.		
		Step 4: LOOSEN BRAIDING AND SLIDE CONNECTOR "A" IN PLACE.		
		STEP 5: SLIDE FERRULE "E" TOWARDS THE CONNECTOR "A" AND CRIMP. (USE 5.5MM/0.217INCH HEX SECTION OF INSERT-B) STEP 6: USE LOCATOR TOOL "ST-10KVM" TO INSTALL INTERFACE GASKET "B" OVER CONTACT PIN.		

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [10KV Male Connector Crimp/Solder Attachment for RG58 PE45836](#)



10KV Male Connector Crimp/Solder Attachment for RG58

RF Connectors Technical Data Sheet

PE45836

10KV Male 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 Male Connector Crimp/Solder Attachment for RG58 PE45836](https://www.pasternack.com/10KV-male-rg58-connector-pe45836-p.aspx)

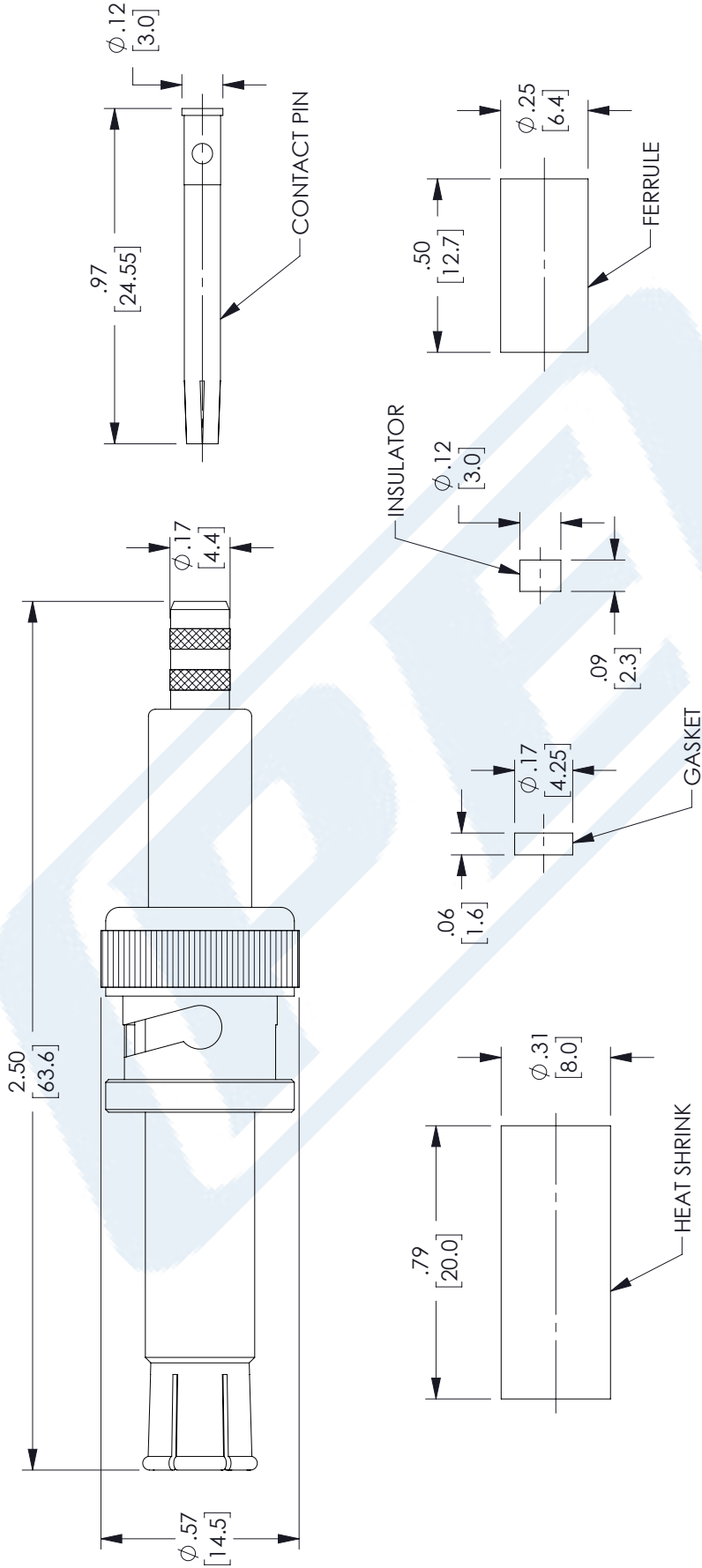
URL: <https://www.pasternack.com/10KV-male-rg58-connector-pe45836-p.aspx>

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PE45836 CAD Drawing

10KV Male Connector Crimp/Solder Attachment for RG58

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	09/15/2022	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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SHEET 1 OF 1
SCALE N/A

SIZE CAGE CODE DRAWN BY ITEM NO. REV
A 53919 DMAY PE45836 A

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N Female Connector Crimp/Solder Attachment For RG58



PE4436

Configuration

- N Female Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG58

Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.3:1
- Gold Plated Brass Contact

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4436 type N , N, Standard, Connector is part of our full line of RF components available for same-day shipping. Our type N female connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.3:1.

Our type N female connector PE4436 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		6	GHz
VSWR			1.3:1	
Operating Voltage (AC)			750	Vrms
Dielectric Withstanding Voltage (AC)			750	Vrms
Impedance		50		Ohms

Mechanical Specifications

Size

Weight 0.055 lbs [24.95 g]

Material Specifications

Description	Material	Plating
Contact	Brass	Gold
Insulation	Teflon	
Outer Conductor	Brass	Nickel
Body	Brass	Nickel
Crimp Sleeve	Brass	Nickel

N Female Connector Crimp/Solder Attachment For RG58



PE4436

Environmental Specifications

Temperature

Operating Range

-65 to +165 deg C

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

Plotted and Other Data

Notes:

N Female 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.

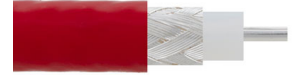
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female Connector Crimp/Solder Attachment For RG58 PE4436](#)

URL: <https://www.pasternack.com/n-female-standard-rg58-connector-pe4436-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

N Female Connector Crimp/Solder Attachment For RG58





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

Description

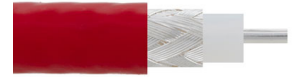
RG303HV part number from Pasternack is a coax cable that is flexible. Pasternack's flexible coax RF cable has an impedance of 50 Ohm and PE dielectric. Our RG303HV coax cable is constructed with a 0.169-inch jacket made of FEP. Our coax cable from Pasternack has a maximum frequency of 3000 MHz. This 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 (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]

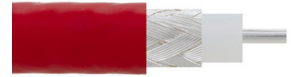
Construction Specifications

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
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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](#)



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 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 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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RG303HV CAD Drawing

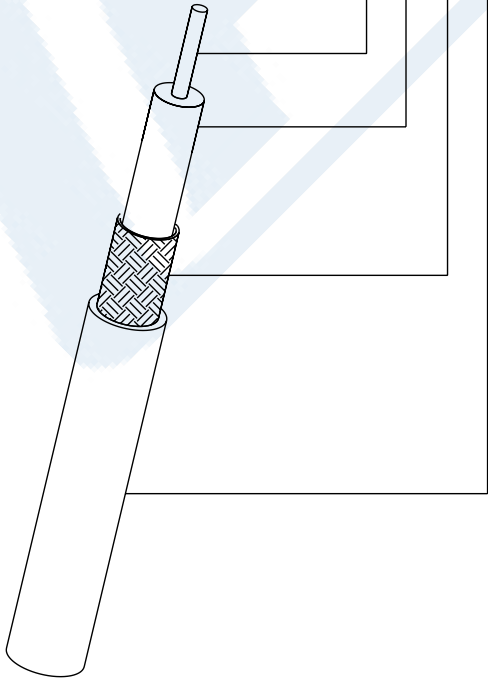
40kV Flexible RG303 High Voltage Coax Cable Single Shielded with Red PUR Jacket

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F E D C B A

1 2 3 4 5 6

REVISION			
ZONE	REV	DESCRIPTION	DATE
	A	INITIAL RELEASE	05/05/2023
		CHANGED BY	PSRINIVAS
		APPROVED	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)

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

TOLERANCES:
X = ±.2 [.5] FRACTIONS
.XX = ±.02 [.5] ± 1/32
.XXX = ±.005 [.13] 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

ALL DIMENSIONS ARE FOR REFERENCE ONLY
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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	CAGE CODE	DRAWN BY	ITEM NO.	RG303HV	REV
A	53919	PSRINIVAS			A

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