

20KV Female Bulkhead Connector Crimp/Solder Attachment for RG213 Cable

The Fairview Microwave FMCN45843 is designed for high voltage applications and is rated to 20KV. This 20KV female bulkhead connector utilizes crimp/solder attachment for the contact. Our 20KV female bulkhead IP67 mated coax connector from Fairview Microwave has an interface type of RG213.

The Fairview Microwave 20KV female bulkhead coaxial connector has a PE (HD) dielectric type. This Fairview Microwave 20KV coax cable connector has a brass body with nickel over copper plating. Our 20KV female bulkhead connector uses beryllium copper contact with gold over nickel over copper plating material. This 20KV female bulkhead |coax RF connector is RoHS and REACH compliant, you can find this 20KV female coax connector datasheet specifications above.

Fairview Microwave standard straight female 20KV female bulkhead connector will ship the same day. Our bulkhead 20KV standard straight 20KV female high voltage connector is part of over one million RF, microwave, and millimeter wave components in stock and ready for same-day shipment worldwide. We also build custom standard cable assemblies that will ship quickly from our location.

Electrical Specifications

Description	Min	Typ	Max	Units
Operating Voltage (DC)			20,000	Vdc
Test Voltage (DC)			30,000	Vdc
Inner Cond. DC Resistance			3	mOhms
Outer Cond. DC Resistance			2	mOhms
Insulation Resistance	1,000			MOhms

Mechanical Specifications

Size	
Length	3.48 in [88.39 mm]
Width/Dia.	0.93 in [23.62 mm]
Height	0.93 in [23.62 mm]
Weight	0.2 lbs [90.72 g]

Material Specifications

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



Configuration:

- 20KV Female Connector
- MIL-STD-202
- Straight Body Geometry
- RG213 Interface Type
- Crimp/Solder Attachment
- Bulkhead

Features:

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

Applications:

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

Fairview Microwave
301 Leora Ln., Suite 100
Lewisville, TX 75056
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Environmental Specifications

Temperature

Operating Range

-55 to +85 deg C

Ingress Protection (IP) Rating

IP67

Salt Spray

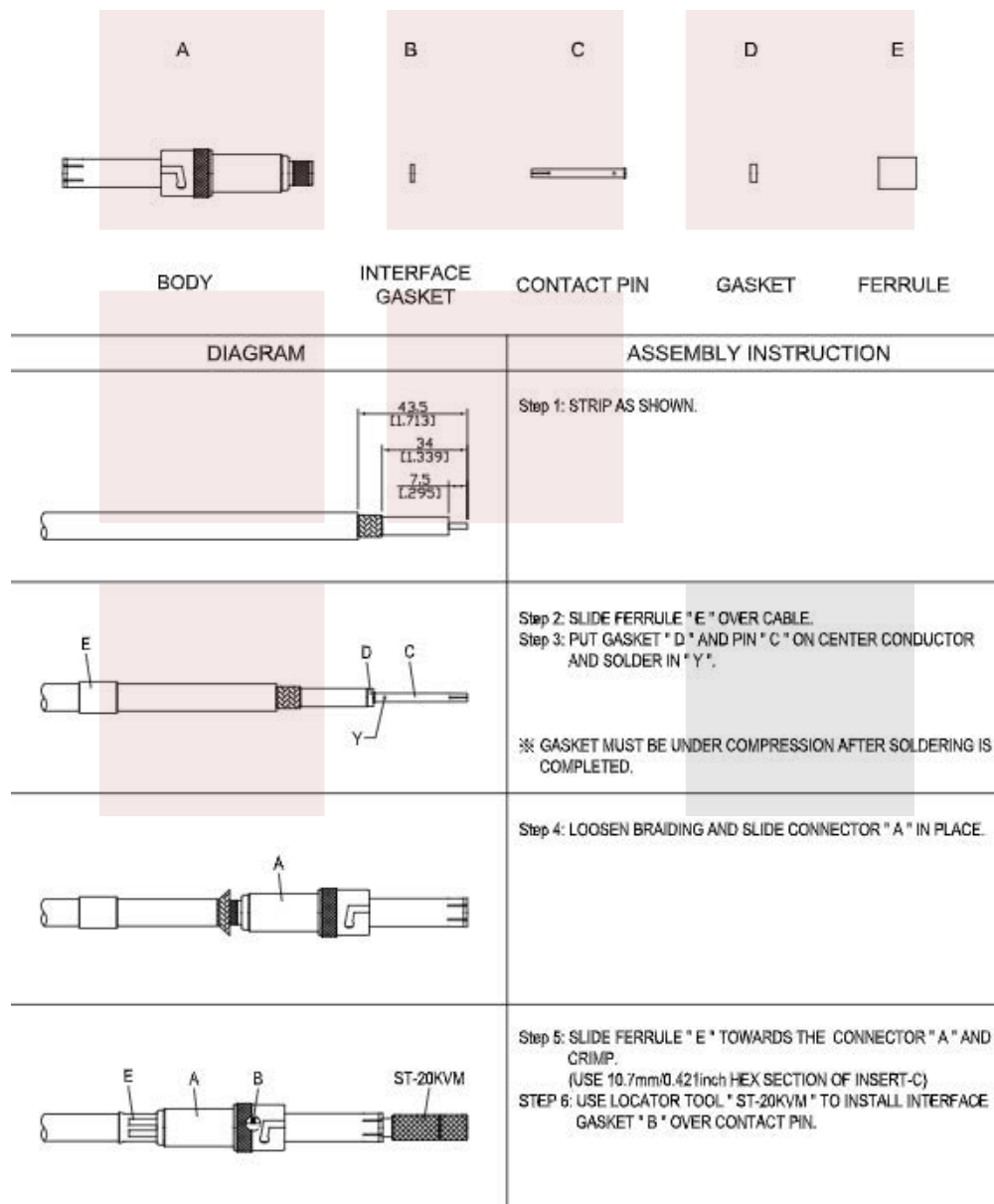
MIL-STD-202, Method 101, Condiiton B

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

Plotted and Other Data

Notes:

Assembly Instruction



20KV Female Bulkhead Connector Crimp/Solder Attachment for RG213 Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

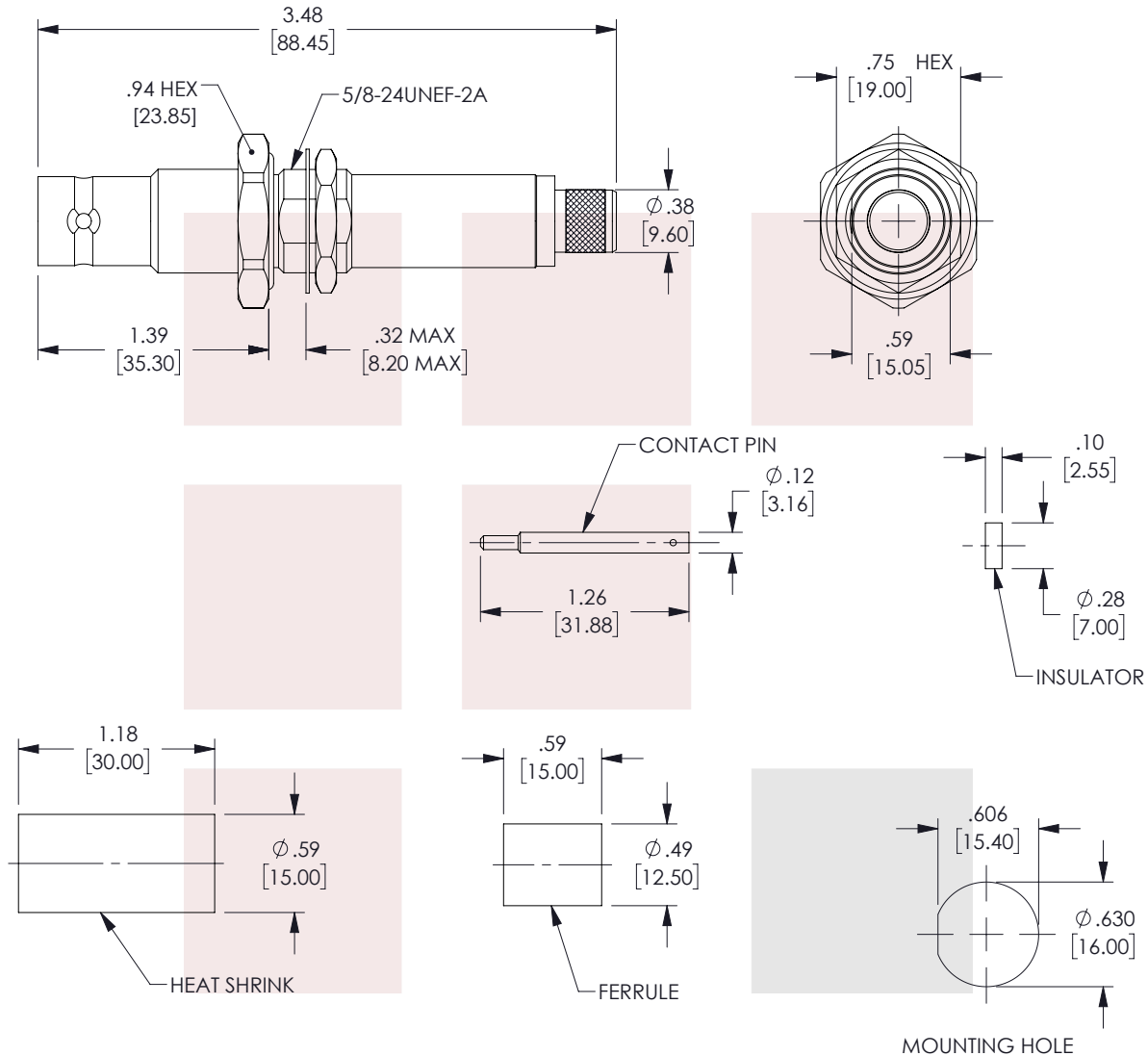
For additional information on this product, please click the following link: [20KV Female Bulkhead Connector Crimp/Solder Attachment for RG213 Cable FMCN45843](#)

URL: <https://www.fairviewmicrowave.com/20kv-female-rg213-connector-fmcn45843-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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	9/21/2022	VJIWATODE



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TITLE

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Attachment for RG213 Cable

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

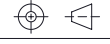
TOLERANCES:

.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

THIRD-ANGLE PROJECTION



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DESIGN IN THIS DOCUMENT
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SHEET 1 OF 1

SCALE N/A

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.			
SIZE A	CAGE CODE 3FKR5	DRAWN BY DMAY	ITEM NO. FMCN45843
			REV A

T-Rev.D

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- Straight Body Geometry
- RG213 Interface Type
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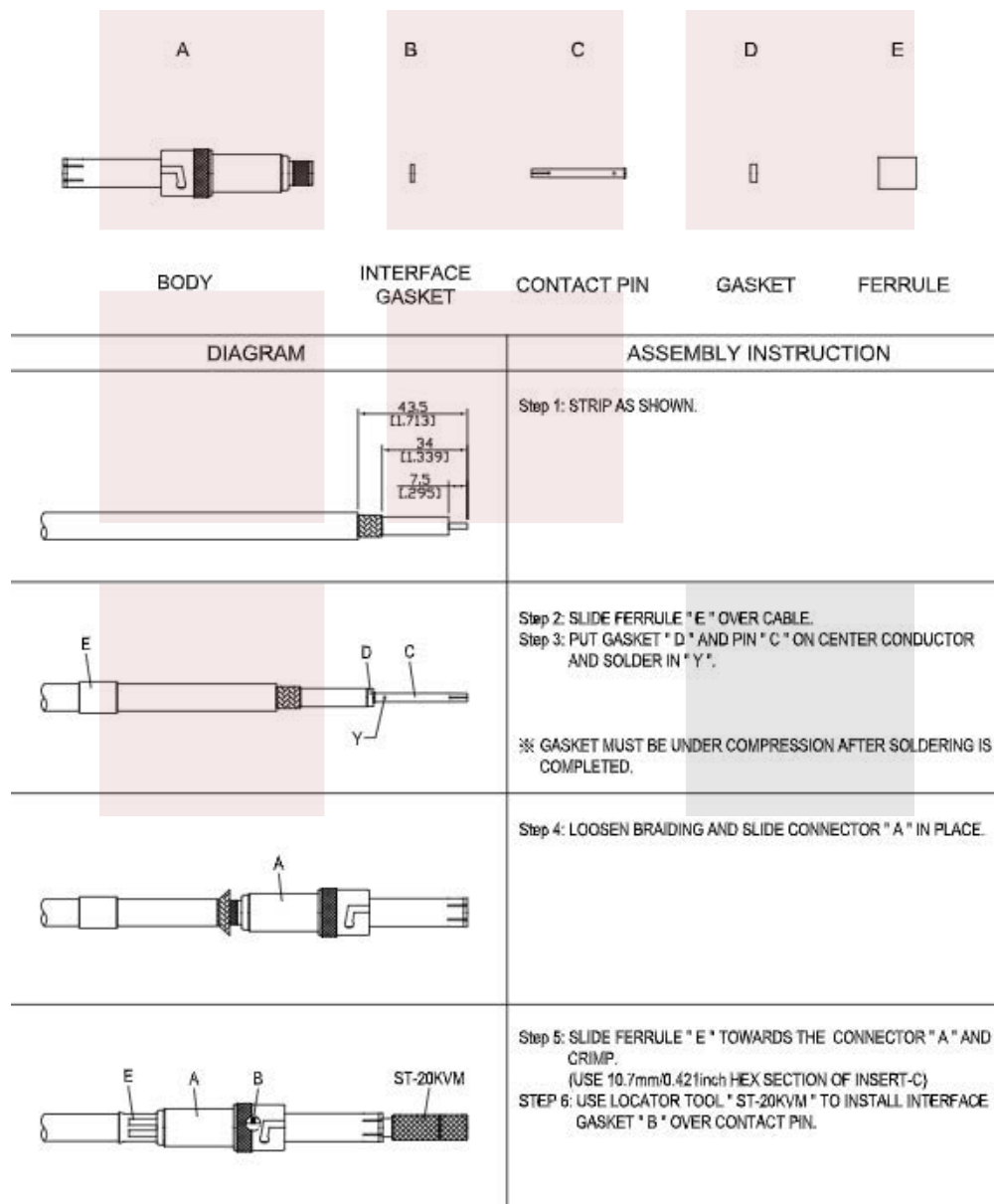
MIL-STD-202, Method 101, Condiiton B

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

Plotted and Other Data

Notes:

Assembly Instruction



20KV Female Bulkhead Connector Crimp/Solder Attachment for RG213 Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [20KV Female Bulkhead Connector Crimp/Solder Attachment for RG213 Cable FMCN45843](#)

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20kV Flexible RG213 High Voltage Coax Cable Single Shielded with Red PUR Jacket

RG213HV part number from Pasternack is a coax cable that is flexible. Fairview Microwave's flexible coax RF cable has an impedance of 50 Ohm and PE dielectric. Our RG213HV coax cable is constructed with a 0.394-inch jacket made of red polyurethane. Our coax cable from Pasternack has a maximum frequency of 1000 MHz. This red colored coax cable has a 0.317-inch shield layer of tinned copper braid. Additional specifications for this RG213HV single-shielded RF coaxial cable are on our download-able PDF datasheet above. Our RG213HV coax cable has a maximum operating temperature of 70 degrees C. This 20kV red-colored flexible RF cable with a 50 Ohm impedance has a typical insertion loss/maximum attenuation of 0.09 dB/ft at a frequency of 1000 MHz. The RG213HV flexible RF cable has a stranded copper center conductor with bare conductor plating.

RG213 high-voltage RF cable is specifically designed for radio frequency applications that require handling high levels of voltage. With a rated voltage of 20kV, this cable ensures safe and efficient transmission of high-voltage RF signals. It is commonly used in industrial applications where reliable RF signal distribution is essential. The RG213 cable is built with durable insulation materials and conductors to minimize signal loss and maintain excellent performance. Adhering to safety guidelines and proper installation practices are essential when working with this cable to maintain electrical safety and preserve signal integrity.

Fairview Microwave RG213HV 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 RG213HV other coax can be built and shipped the same business day as well.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		1,000	MHz
Impedance		50		Ohms
Operating Voltage (DC)			20,000	Vdc
Test Voltage (Conductor/Braid)		41		kVoc/1min
Test Voltage (Spark Test, Core)		15		kVac
Test Voltage (Spark Test, Jacket)		5		kVac
Test Voltage (Type Test)		32		kVoc

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	50	100	400	1,000		MHz
Attenuation, Typ	1.2	2.3	4.8	9		dB/100ft
	3.94	7.55	15.75	29.53		dB/100m

Mechanical Specifications

Diameter	0.394 in [10.01 mm]
Weight	0.097 lbs/ft [0.14 kg/m]
Min. Bend Radius (Repeated)	1.969 in [50.01 mm]



Configuration:

- 1 Shield(s)

Features:

- Voltage rating up to 20kV
- Low Signal Attenuation
- Robust Insulation
- Flexible and Durable

Applications:

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

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www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, Bare, 7 Strands	0.089 in [2.26 mm]
Conductor Type	Stranded	
Dielectric	PE	0.286 in [7.26 mm]
First Shield	Tinned Copper Braid	0.317 in [8.05 mm]
Jacket	Polyurethane, Red	0.394 in [10.01 mm]

Environmental Specifications

Temperature

Operating Range -30 to +70 deg C

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.

20kV Flexible RG213 High Voltage Coax Cable Single Shielded with Red PUR Jacket from Fairview Microwave 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 to obtain additional part information: [20kV Flexible RG213 High Voltage Coax Cable Single Shielded with Red PUR Jacket RG213HV](#)

URL: <https://www.fairviewmicrowave.com/rg213-flexible-coax-cable-polyurethane-jacket-rg213hv-p.aspx>

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