Fairview Microwave
an INFINITE brand

RG213HV DATA SHEET

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.

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

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 3.94	2.3 7.55	4.8 15.75	9 29.53		dB/100ft 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]

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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 preformed in accordacne with MIL-DTL-17 (current issue).
  2) All materials are RoHS and REACH compliant.

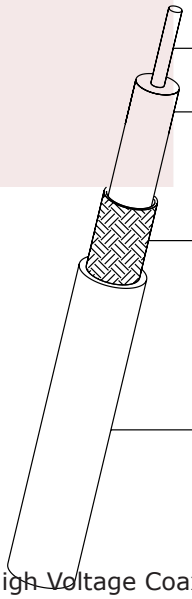
20kV Flexible RG213 High Voltage Coax Cable Single Shielded with Red PUR Jacket from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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

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

Center Conductor	Ø.0886 [2.25]	7 Strand Bare Copper
Dielectric	Ø.286 [7.26]	Solid Polyethylene
Braid	Ø.317 [8.05]	Copper Braid
Jacket	Ø.394 [10.01]	Red PUR



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

TOLERANCES:

X = ± .2 [5] | FRACTIONS ± 1/32"
XX = ± .02 [.5] | ANGLES ± 1°
XXX = ± .005 [.13]

CABLE LENGTH TOLERANCES:

≤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
AND SUBJECT TO CHANGE WITHOUT NOTICE.

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Website: www.Pasternack.com
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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	PSRINIVAS	RG213HV	A

SCALE	SHEET
NONE	1 OF 1

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

T-Rev.D2