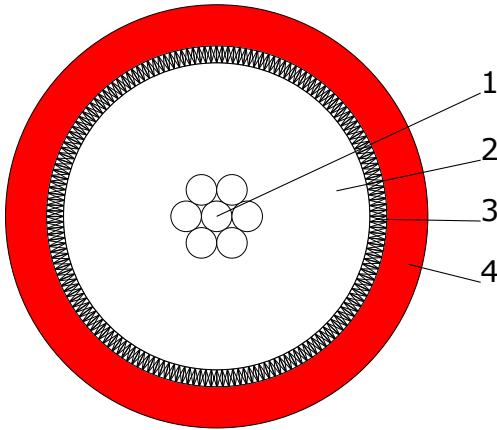


## 20kV<sub>DC</sub> - 3.1mm<sup>2</sup> - PE DIELECTRIC HIGH VOLTAGE CABLE

### PRODUCT DESCRIPTION

20kV<sub>DC</sub> coaxial high voltage cable with PE dielectric and PUR jacket. Suitable to replace standard 50Ω RG213 coaxial cable in high voltage applications. The dimensions correspond to standard RG213. It is fully compatible with our HC52 and 20kV Kings® type coaxial connectors. Halogen free, flame retardant, low smoke (LSZH). RoHS / REACH compliant. The jacket is resistant against oil, hydrolysis and microbes.

### CONSTRUCTION



<b>1. Conductor</b>	Cu (7x0.75mm bare copper)	3.1mm <sup>2</sup> Ø 2.25mm
<b>2. Dielectric</b>	PE	Ø 7.25mm ± 0.20mm
<b>3. Braid</b>	Cu (bare copper) 94% Coverage	Ø 8.05mm
<b>4. Jacket</b>	PUR	Ø 10.0mm ± 0.2mm

### TECHNICAL DATA

<b>Rated Voltage</b>	20kV <sub>DC</sub>
<b>Test Voltage</b>	41kV <sub>DC</sub> / 1min 15kV <sub>DC</sub> (Spark Test, core) 5kV <sub>DC</sub> (Spark Test, jacket) 32kV <sub>DC</sub> / 24h (Type Test 100%)
<b>Conductor Resistance @ 20°C</b>	≤ 6.3Ω/km
<b>Braid Resistance @ 20°C</b>	≤ 4.1Ω/km
<b>min. Bend Radius</b>	50mm (fixed)
<b>Operating Temperature</b>	-30°C - +70°C
<b>Oil Resistance</b>	Yes
<b>Flame Retardance</b>	Yes
<b>Low Smoke</b>	Yes (LSZH)
<b>Halogen-free</b>	Yes
<b>RoHS Compliant</b>	Yes
<b>Weight</b>	ca. 0.145kg/m
<b>Cu-Weight</b>	ca. 0.082kg/m
<b>Color</b>	red
<b>Status</b>	P (Preferred)

This cable can be terminated with our HC52 and HC7 connector series.

All values and dimensions without given tolerances are nominal.

#### Disclaimer

The information given in this data sheet is technical data, not assured product characteristics. It has been carefully checked and is believed to be accurate; however, no responsibility is assumed for inaccuracies. The user has to ensure by adequate tests that the product is suitable for his application regarding safety and technical aspects. hivolt.de GmbH & Co. KG does not assume any liability arising out of the application or use of any product described.

#### Safety Advice

Design, installation and inspection of machinery and devices carrying high voltage require accordingly trained and qualified personnel. Appropriate safety rules and directives must be complied with. Improper handling of high voltage can mean severe injuries or death and may cause serious collateral damage!