

50kV_{DC} - 3.1mm² - PE DIELECTRIC HIGH VOLTAGE CABLE

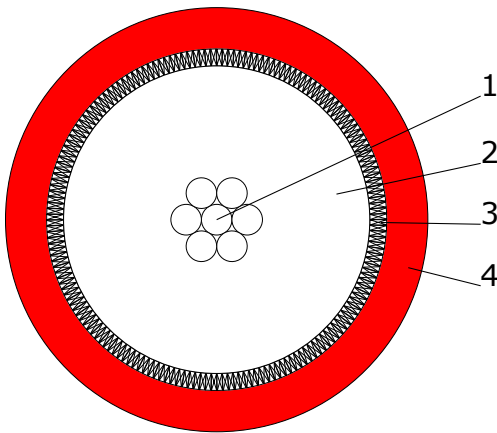
PRODUCT DESCRIPTION

50kV_{DC} 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.

Halogen free, flame retardant, low smoke (LSZH). RoHS / REACH compliant. The jacket is resistant against oil, hydrolysis and microbes.

It is fully compatible with our HC52 and 20kV Kings® type coaxial connectors.

CONSTRUCTION



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

TECHNICAL DATA

Rated Voltage	50kV _{DC}
Test Voltage	70kV _{DC} / 2h 15kV _{DC} (Spark Test, core) 5kV _{DC} (Spark Test, jacket)
Conductor Resistance @ 20°C	≤ 6.3Ω/km
Braid Resistance @ 20°C	≤ 4.1Ω/km
min. Bend Radius	50mm (fixed)
Operating Temperature	-30°C - +70°C
Oil Resistance	Yes
Flame Retardance	Yes
Low Smoke	Yes (LSZH)
Halogen-free	Yes
RoHS Compliant	Yes
Weight	ca. 0.145kg/m
Cu-Weight	ca. 0.082kg/m
Color	red
Status	P (Preferred)

The cable is fully tested to operate at 50kV_{DC}, although the printed rating indicates 20kV_{DC}.

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!