

20kV_{DC} - 0.50mm² - PE-X DIELECTRIC COAXIAL HIGH VOLTAGE CABLE

PRODUCT DESCRIPTION

20kV_{DC} coaxial high voltage cable suitable to replace standard 50Ω RG58 coaxial cable in high voltage applications.

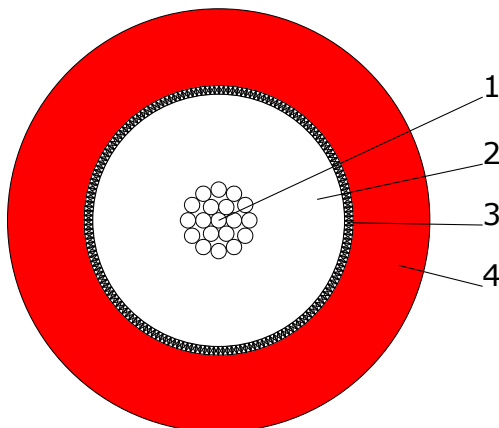
It is fully compatible with SHV, MHV, HC51 and Kings® type coaxial connectors.

Halogen free, flame retardant, low smoke (LSZH). RoHS / REACH compliant.

The jacket is resistant against oil, hydrolysis and microbes.

The cable is available on cardboard reels (150m) and wooden reels (500m).

CONSTRUCTION



1. Conductor	Cu/Sn (19xAWG33 t.p.c.)	0.50mm ² Ø 0.95mm
2. Dielectric	PE-X	Ø 2.95mm ± 0.05mm
3. Braid	Cu/Sn (0.10mm t.p.c.) 85% Coverage	Ø 3.35mm ± 0.1mm
4. Jacket	TPE-U (PUR)	Ø 4.95mm ± 0.15mm

TECHNICAL DATA

Rated Voltage	20kV _{DC}
Test Voltage	41kV _{DC} / 60s (conductor / braid) 15kV _{AC} (Spark Test, core)
Conductor Resistance @ 20°C	≤ 40Ω/km
Impedance	typ. 50Ω
Capacitance	typ. 102pF/m
min. Bend Radius	74mm (moving), 37mm (fixed)
Operating Temperature	-20°C - +105°C
Flame Retardance	according to DIN EN 60332-2-1 (60s) and DIN EN 60332-2-2 (20s)
Halogen-free	Yes (LSZH)
Weight	ca. 0.032kg/m
Cu-Weight	ca. 0.014kg/m
Color	red
RoHS Compliant	Yes
Status	P (Preferred)

Intended for fixed installation; suitable for flexible wiring to a limited extent.

The cable is compatible with HC51 Series high voltage connectors HC51P-58 and HC51RB-58.

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!