

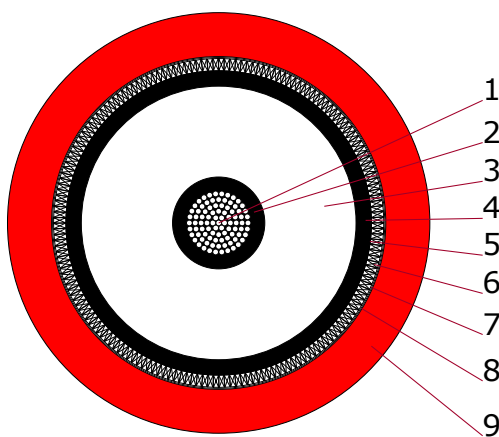
120kV_{DC} / 40kV_{AC} - 6mm² - EPR DIELECTRIC HIGH VOLTAGE MEASUREMENT CABLE

PRODUCT DESCRIPTION

Shielded high voltage cable optimized for low partial discharge, robustness and flexibility. Halogen free design with EPR dielectric and a robust flame retardant EVA jacket. Semiconductive layers around the center conductor and the dielectric assure excellent PD behavior. The outer semiconductive layer is cold strippable.

This cable is intended and designed for measurement applications. It is not suitable for permanently powered AC medium-voltage applications. Insulation wall thickness and test voltage are not in line with common standards requirements for medium-voltage cable. Special care and attention is necessary when using the cable.

CONSTRUCTION



1. Conductor	Cu/Sn (t.p.c.) (class 5 acc. DIN EN 60228)	6mm ² Ø 2.9mm
2. Semicon	Semiconductive EPR	Ø 4.5mm
3. Dielectric	EPR	Ø 13.4mm
4. Semicon	Semiconductive NBR Rubber	Ø 14.8mm
5. Tape	Semiconductive Tape	
6. Braid	Cu/Sn (t.p.c.)	Ø 16.1mm > 6mm ²
7. Tape	PET Tape	
8. Tape	Impregnated Glass Fabric Tape	
9. Jacket	Cross linked EVA EM8	Ø 20.6mm ± 0.8mm

TECHNICAL DATA

Rated Voltage	120kV _{DC} / 40kV _{AC}
Test Voltage (routine test)	150kV _{DC} / 3min
Test Voltage (type test)	150kV _{DC} / 30min; 50kV _{AC} / 3min
Capacitance	typ. 140pF/m
Insulation Resistance @ 20°C	> 20MΩ*km
min. Bend Radius	214mm (during installation or occasional movements in operation) 128mm (fixed installed operation)
Operating Temperature	-20°C - +60°C (moving) -40°C - +80°C (stationary)
Oil Resistance	according to DIN EN 60811-404
Flame Propagation, Single Cable	according to DIN EN 60332-1-2
Halogen-free	Yes
RoHS Compliant	Yes
Weight	ca. 0.535kg/m
Cu-Weight	ca. 0.166kg/m
max. Permissible Pulling Force	15N/mm ²
Color	red
Status	P (Preferred)

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!