

HSC-125-1E1SAB-2

8.7/15kV_{AC} – 40kV_{AC}/125kV_{DC} – EPR DIELECTRIC – MV / 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.

This cable is intended and designed for use as flexible wiring in switchgears with protected installation or for short term measurement applications.

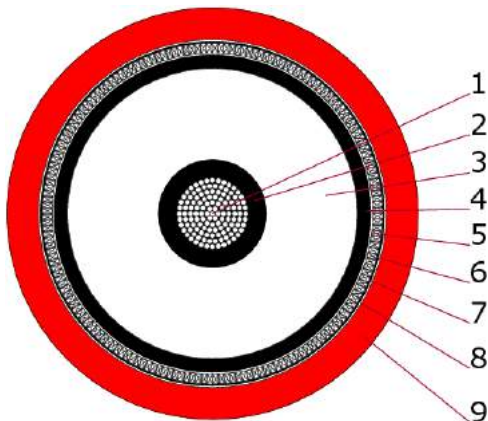
In case of switchgear wiring the permissible operating voltage is 8.7/15kV_{AC}. The common rules for installation and use must be followed.

For short term testing/measurement applications the operating voltage is up to 40kV_{AC} or up to 125kV_{DC} respectively.

The following must be taken into account: insulation wall thickness and test voltage are not in line with common standards requirements. Special care and attention is necessary when using the cable.

Basic specification based on ICEA S-93-639 / UL 1072.

CONSTRUCTION



1 Conductor	Cu/Sn (t.p.c.) (class 5 acc. DIN EN 60228)	10mm ² Ø 4.0mm
2 Semicon	Semiconductive EPR	Ø 5.6mm
3 Dielectric	EPR 3GI3	Ø 15.0mm
4 Semicon	Semiconductive NBR Rubber	Ø 16.4mm
5 Tape	Semiconductive Tape	
6 Braid	Cu/Sn (t.p.c.)	Ø 17.6mm > 10mm ²
7 Tape	PET Tape	
8 Tape	Nonwoven Separator Tape	
9 Jacket	EVA EM8	Ø 21.3mm ± 1.0mm

TECHNICAL DATA

Rated Voltage (continuous use)	8.7/15kV _{AC} U ₀ /U
Maximum Voltage (phase - phase)	15.75kV _{AC}
Rated Voltage (short term use)	125kV _{DC} 40kV _{AC}
Test Voltage (routine test)	35kV _{AC} / 5min
Partial Discharge Test (routine test)	≤ 5pC @ 20kV _{AC}
Test Voltage (type test)	160kV _{DC} / 15min 55kV _{AC} / 5min
Insulation Resistance	> 20MΩ*km