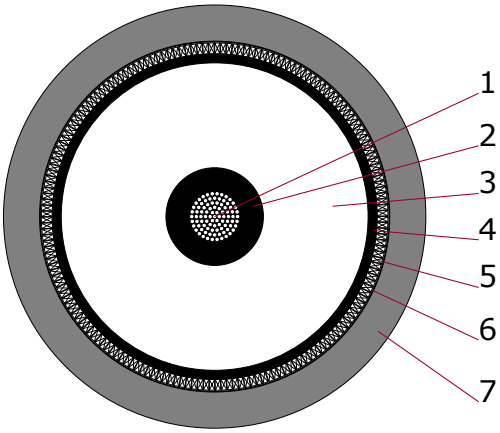
HSC-50-1S1SUA-0 hivolt.de

50kV$_{DC}$ / 15kV$_{AC}$ - AWG16 - SILICONE DIELECTRIC HIGH VOLTAGE CABLE

▪ PRODUCT DESCRIPTION

50kV$_{DC}$ / 15kV$_{AC}$ shielded high voltage cable optimized for low partial discharge, robustness and high flexibility even at low ambient temperatures. Semiconductive layers around the conductor and the inner dielectric assure excellent PD behavior. Silicone dielectric and a robust TPE-U / Polyurethane jacket.

▪ CONSTRUCTION



1. Conductor	AWG16 Cu/Sn (105xAWG36 t.p.c.)	1.33mm² Ø 1.53mm
2. Semicon	Semiconductive Silicone	Ø 2.7mm
3. Dielectric	Silicone	Ø 8.5mm
4. Semicon	Semiconductive PTFE Tape	Ø 9.0mm
5. Braid	Cu/Sn (6x24x 0.15mm t.p.c.) ≥85% Coverage	Ø 9.6mm
6. Tape	Nonwoven Separator Tape	Ø 9.7mm
7. Jacket	TPE-U	Ø 11.7mm ± 0.5mm

▪ TECHNICAL DATA

Rated Voltage	50kV$_{DC}$ / 15kV$_{AC}$
Test Voltage (Conductor – Braid) **(Jacket)**	80kV$_{DC}$ / 1min 5kV$_{AC}$ (Spark Test)
Partial Discharge Level	⩽ 20pC, U$_{PD}$ = 8kV$_{AC}$
Conductor Resistance @ 20°C	⩽ 13.6Ω/km
Braid Resistance @ 20°C	⩽ 16Ω/km
Capacitance	typ. 150pF/m
min. Bend Radius	120mm (moving), 60mm (fixed)
Operating Temperature	-40°C - +90°C
RoHS Compliant	Yes
Weight	ca. 0.197kg/m
Cu-Weight	ca. 0.063kg/m
Color	black
Status	P (Preferred)

This cable can be terminated with our HC7 connector series.

All values and dimensions without given tolerances are nominal.

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