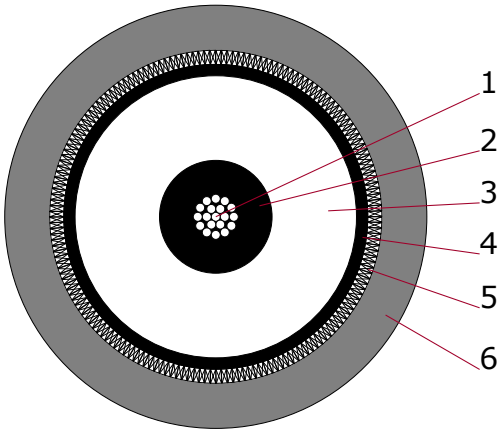
HSL-20-0.38-SS-P1-0

20kV$_{DC}$ / 6.6kV$_{AC}$ - AWG22 - SILICONE DIELECTRIC - LOW PD

PRODUCT DESCRIPTION

20kV$_{DC}$ / 6.6kV$_{AC}$ shielded high voltage cable optimized for low partial discharge and high flexibility even at low ambient temperatures. Semiconductive layers around the conductor and the inner dielectric assure excellent PD behavior.
Remark: The outer semicon layer adheres to the dielectric but is removable.

CONSTRUCTION



1. Conductor	AWG22 Cu/Ag (19xAWG34 s.p.c.)	0.38mm² Ø 0.78mm
2. Semicon	Semiconductive Silicone	Ø 2.0mm ± 0.1mm
3. Dielectric	Silicone	Ø 5.0mm ± 0.2mm
4. Semicon	Semiconductive PTFE Tape	Ø 5.4mm
5. Braid	Cu/Sn (0.13mm t.p.c.) ≥85% Coverage	Ø 5.9mm ± 0.3mm
6. Jacket	Special Silicone	Ø 7.5mm ± 0.3mm

TECHNICAL DATA

Rated Voltage	20kV$_{DC}$ / 6.6kV$_{AC}$
Test Voltage	50kV$_{DC}$ / 1min (conductor / braid) 18kV$_{AC}$ (Spark Test, core) 2.5kV$_{AC}$ (Spark Test, jacket)
Conductor Resistance @ 20°C	≤ 52.2Ω/km
Braid Resistance	≤ 10.2Ω/km
Impedance	typ. 46Ω
Capacitance	typ. 180pF/m
min. Bend Radius	73mm (moving), 55mm (fixed)
Operating Temperature	-40°C - +140°C
RoHS Compliant	Yes
Weight	ca. 0.082kg/m
Cu-Weight	ca. 0.034kg/m
Color	black
Status	E (Example)

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