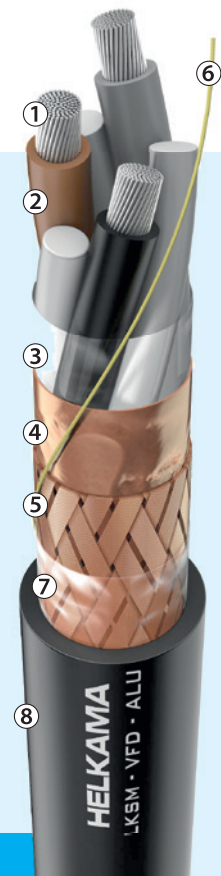


# LKSM-VFD-ALU

## Armoured power and control cable with improved EMC screening 1,8/3 kV

DESIGN:	STANDARDS: IEC 60092-353, design	
<b>1. Conductor</b>	- stranded aluminum conductor 25–400 mm <sup>2</sup> - stranded aluminum conductor 25–400 mm <sup>2</sup>	IEC 60228, class 2 ISO 6722-2, class 5
<b>2. Insulation</b>	- XLPE plastic	IEC 60092-360
<b>3. Cabling / bedding</b>	- cabling with optional fillers or dummy cores to obtain symmetrical and round construction	
<b>4. Screen</b>	- copper tape, coverage 100%	
<b>5. Armour</b>	- copper wire braid, coverage > 90% - tinned copper wire braid on request	IEC 60092-350
<b>6. Rip cord</b>		
<b>7. Separator tape</b>		
<b>8. Sheath</b>	- polyolefine plastic, SHF1 - on request, thermosetting polyolefine, SHF2 - standard colour black, other colours on request	IEC 60092-360

● Flame-retardant ● Halogen-free ● Low smoke emission ● Oil resistant (only SHF2)



**Application:** For fixed installation in most areas and on open deck in ships and off shore units. Design to meet requirements for **V**ariable **F**requency **D**rivers (VFD). Suitable for voltage peaks up to 3 kV.

### Main characteristics

Rated voltage	<b>1,8/3 kV (3,6 kV)</b>
Flame-retardant	<b>IEC 60332-1-2</b> -test for single insulated wire and cable <b>IEC 60332-3-22</b> -test for bunched wires and cables, category A
Halogen-free	<b>IEC 60754</b> series
Smoke emission	<b>IEC 61034</b> series
Oil resistance (only SHF2)	<b>IEC 60811-404</b> conditions according to 60092-360/SHF2
Transfer impedance	<b>IEC 61196-1</b> (typical value 26 dB over 1 mΩ/m at 100 MHz [20 mΩ/m])

**Temperature rating:** Maximum conductor temperature **90 °C**  
Fixed installation **-40 °C** to **80 °C**  
Minimum recommended installation temperature **-15 °C**