

# LKSM-VFD

1.8/3 kV

Armoured power and control cable  
with improved EMC-screening

1.8/3 kV CABLES



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

<b>CONDUCTOR</b>	Stranded copper conductor 16-300 mm <sup>2</sup> , IEC 60228 Class 5
<b>INSULATION</b>	XLPE
<b>CABLING/BEDDING</b>	Cabling, cores twisted together, with optional fillers or dummy cores for symmetrical and round construction. Bedding, lapped tape.
<b>SCREEN</b>	Copper tape, coverage 100%
<b>ARMOUR</b>	Copper wire braid, coverage > 90%, IEC 60092-350
<b>RIP CORD</b>	For conductors $\geq 16$ mm <sup>2</sup>
<b>SHEATH</b>	Polyolefine SHF1, IEC 60092-360 Thermosetting polyolefine SHF2 on request Standard colour black, other colours on request
<b>REFERENCE STANDARD</b>	IEC 60092-353

## APPLICATION

Armoured power and control cable. For fixed installation in most areas, and on open deck in ships and offshore units. Specially designed cables to meet requirements for Variable Frequency Drivers (VFD). Suitable for voltage peaks up to 3 kV.

## PHYSICAL PROPERTIES:

<b>CORE IDENTIFICATION</b>	Colour code for 1...4 core cables, number code for 5...37 core cables
<b>MARINE TYPE APPROVALS</b>	ABS, BV, CCS, CRS, DNV, KR, LR, RINA

## MAIN CHARACTERISTICS:

<b>RATED VOLTAGE</b>	1.8/3 kV (3.6 kV)
<b>FIRE PERFORMANCE</b>	IEC 60332-1-2 IEC 60332-3-22
<b>HALOGEN-FREE</b>	IEC 60754 series
<b>SMOKE EMISSION</b>	IEC 61034 series
<b>OIL RESISTANCE (SHF2 only)</b>	IEC 60811-404 conditions according to 60092-360/SHF2
<b>TRANSFER IMPEDANCE</b>	IEC 61196-1 (typical value 26 dB over 1 m $\Omega$ /m at 100 MHz [20 m $\Omega$ /m])
<b>MIN. INSTALLATION TEMPERATURE</b>	-15 °C
<b>OPERATING TEMPERATURE</b>	-40 - 80 °C fixed installation
<b>MAXIMUM CONDUCTOR TEMPERATURE</b>	90 °C

Subject to change without prior notice. See latest update on our webpage.

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## LKSM-VFD 0.6/1 kV

Part number	No. of conductors x Conductor area (mm <sup>2</sup> )	Cross-section of armour mm <sup>2</sup>	Nominal outer Ø (mm)	Weight kg/km	Current rating A	Min. bending radius mm (fixed)	Note
26918	1 x 10	4.7	12.5	280	71	75	x
26920	1 x 16	5.6	14.5	355	94	85	x
26922	1 x 25	8.5	16.0	495	123	95	x
26924	1 x 35	9.4	17.0	620	153	100	x
26926	1 x 50	10.4	18.5	780	196	110	x
26928	1 x 70	11.4	20.5	985	240	120	x
26930	1 x 95	12.6	22.5	1245	284	135	x
26932	1 x 120	13.7	24.0	1505	331	145	x
26934	1 x 150	14.8	26.0	1790	381	155	x
26936	1 x 185	15.8	27.5	2110	429	165	x
26938	1 x 240	17.7	31.0	2730	507	185	x
26940	1 x 300	19.0	33.5	3310	582	200	x
26892	3 x 10	13.2	23.5	1030	50	140	1)
26871	3 x 16	16.6	27.0	1325	66	160	1)
26873	3 x 25	17.0	30.0	1735	86	180	1)
26875	3 x 35	18.8	32.0	2155	107	190	1)
26877	3 x 50	29.1	36.5	2880	137	220	1)
26879	3 x 70	35.3	40.0	3760	168	240	1)
26881	3 x 95	35.7	44.0	4630	199	265	x
26883	3 x 120	38.8	48.0	5615	232	285	x
26885	3 x 150	42.2	53.0	6920	267	315	x
26887	3 x 185	45.7	56.0	8110	300	335	x
26889	3 x 240	50.5	62.0	10425	355	375	x
26893	3 x 95 + 3 x 16	35.7	44.0	4495	199	265	2)
26895	3 x 120 + 3 x 25	38.8	48.0	5580	232	285	2)
26897	3 x 150 + 3 x 25	42.2	53.0	6635	267	315	2)

**NOTE!**

**PE-rules** PE rules, for cables > 16 mm<sup>2</sup> the PE-conductor must be half of main conductor and min. 16 mm<sup>2</sup>.

PE rule according to IEC 60092-352, Electrical installations in ships (Choice and installation of electrical cables)

**x** = Protective earth (PE) rules are NOT fulfilled.

**1)** = Single Armour can be used as Protective Earth. PE-rules are fulfilled.

**2)** = Three additional protective earth (PE) conductors. PE-rules are fulfilled.

**3)** = Double Armour can be used as Protective Earth. PE-rules are fulfilled.

Information given is indicative and doesn't involve any warranty on results.

We reserve the right to change this datasheet.

Other sizes on request.