

LKSM-VFD

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



DESIGN:	STANDARDS: IEC 60092-353, design
1. Conductor	
- stranded copper conductor	IEC 60228, class 5
- tinned stranded copper conductor on request	
2. Insulation	
- XLPE plastic	IEC 60092-360
3. Bedding	
- filler tape	
4. Screen	
- copper tape, coverage 100%	
5. Armour	
- copper wire braid, coverage > 90%	IEC 60092-350
- tinned copper wire braid on request	
6. Sheath	
- polyolefine plastic, SHF1	IEC 60092-360
- on request, thermosetting polyolefine, SHF2	
- standard colour black, other colours on request	

Flame-retardant	☒
Fire-resistant	☐
Halogen-free	☒
Low smoke emission	☒
Oil resistant (only SHF2)	☒

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

Main characteristics

Rated voltage	1,8/3kV (3,6kV)
Maximum conductor temperature	+ 90 °C
Flame-retardant	IEC 60332-1-2 -test for single insulated wire and cable IEC 60332-3-22 -test for bunched wires and cables, category A
Halogen-free	IEC 60754 series
Smoke emission	IEC 61034 series
Oil resistance (only SHF2)	IEC 60811-404 conditions according to 60092-360/SHF2
Transfer impedance	IEC 61196-1 (typical value 26dB over 1mΩ/m at 100MHz [20mΩ/m])
For details see general information section	

Minimum recommended installation temperature -15 °C

Lowest operation temperature -40 °C

Core identification:

See technical information section.
Cable with yellow/green protective earth (PE) conductor on request

Identification: Lot number, cable type, cable size, voltage, temperature, standards, manufacturer's name, production month and meter marking printed on the sheath



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LKSM-VFD 1,8/3kV	Number of conductors & cross-section n x mm ²	Cross-section of armour mm ²	Nominal outer diameter mm	Approximate weight kg/km	Current Rating A at +45°C	Min. bending radius fixed installation mm	Note
Part number							
26918	1x10	4,7	12,5	280	71	75	1)
26920	1x16	5,5	14,0	355	94	85	1)
26922	1x25	8,5	16,0	495	123	95	1)
26924	1x35	9,3	17,0	625	153	105	1)
26926	1x50	10,3	19,0	795	196	115	1)
26928	1x70	11,3	20,5	995	240	125	1)
26930	1x95	12,5	23,5	1280	284	140	1)
26932	1x120	13,6	25,5	1525	331	150	1)
26934	1x150	14,7	27,5	1830	381	165	1)
26936	1x185	15,8	29,5	2165	429	180	1)
26938	1x240	17,6	33,0	2800	507	200	1)
26940	1x300	18,9	35,0	3365	582	210	1)
26892	3x10	13,2	23,5	880	50	140	
26871	3x16	16,4	26,5	1160	66	160	
26873	3x25	16,9	29,5	1525	86	180	
26875	3x35	18,7	32,5	1910	107	195	
26877	3x50	28,8	37,0	2580	137	225	
26879	3x70	35,2	41,0	3395	168	245	
26881	3x95	35,4	46,5	4295	199	280	1)
26883	3x120	38,6	50,5	5200	232	305	1)
26885	3x150	42,0	55,0	6255	267	330	1)
26887	3x185	45,5	60,0	7475	300	360	1)
26889	3x240	50,2	67,0	9620	355	405	1)
26893	3x95+3x16	35,4	46,5	4650	199	280	2)
26895	3x120+3x25	38,6	50,5	5755	232	305	2)
26897	3x150+3x25	42,0	55,0	6780	267	330	2)

Other sizes on request.

Part number for oil resistant SHF2 cable:

4 + code from above table → 4xxxxx

NOTE!

- 1) = Protective earth (PE) rules are not fulfilled.
(PE rules, for cables over 16mm² the PE-conductor have to be half of main conductor and min. 16mm². This according to IEC 60092-352, Electrical installations in ships –Choice and installation of electrical cables)
- 2) = Three additional protective earth (PE) conductors. Protective earth (PE) rules are fulfilled.



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