

LKSM-EMC-FRHF

Fire-resistant armoured power and control cable with improved EMC screening 0,6/1kV



DESIGN:

- Conductor**
 - stranded copper conductor 1,0-10mm² IEC 60228, class 2
 - stranded copper conductor 16-300mm² IEC 60228, class 5
 - tinned stranded copper conductor on request
- Insulation**
 - Mica tape
 - XLPE plastic IEC 60092-360
- Bedding**
 - filler tape
- Screen**
 - copper tape, coverage 100%
- Armour**
 - copper wire braid, coverage > 90% IEC 60092-350
 - tinned copper wire braid on request
- Sheath**
 - polyolefine plastic, SHF1, standard colour orange IEC 60092-360
 - on request thermosetting polyolefine, SHF2, standard colour black
 - other colours on request

STANDARDS:
IEC 60092-353, design

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. If the cable is exposed to direct sun light protective covering or cable with black outer sheath is recommended. Design to meet requirements for improved **EMC** screening properties.

Main characteristics

Rated voltage	AC 0,6/1kV (1,2kV) DC 0,9/1,5kV (if voltage to earth does not exceed 0,9kV)
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
Fire -resistant	IEC 60331-1 and IEC 60331-2
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.

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-EMC-FRHF 0,6/1kV		Number of conductors & cross-section n x mm²	Cross- section of armour mm²	Diameter of screen mm	Nominal outer diameter mm	Approx- imate weight kg/km	Current Rating A at +45°C	Min. bending radius fixed installation mm
Part number								
–	–	1x1,0	3,0	4,5	6,5	90	18	40
–	–	1x1,5	3,0	4,5	7,0	100	23	40
–	–	1x2,5	3,1	5,0	7,5	110	30	45
–	–	1x4	3,1	5,5	8,0	130	40	45
–	–	1x6	3,1	6,0	8,5	155	52	50
–	–	1x10	3,5	7,0	10,0	215	72	60
–	–	1x16 Flex	4,1	8,5	11,0	285	94	65
–	–	1x25 Flex	4,8	10,5	13,0	410	123	80
–	–	1x35 Flex	5,5	11,5	14,0	515	153	85
–	–	1x50 Flex	8,6	13,5	17,0	705	196	100
–	–	1x70 Flex	10,0	15,5	18,5	935	240	110
–	–	1x95 Flex	11,5	18,0	21,5	1190	284	130
–	–	1x120 Flex	12,3	20,0	23,5	1465	331	140
–	–	1x150 Flex	14,7	22,5	26,5	1800	381	160
–	–	1x185 Flex	15,2	25,5	29,0	2165	429	175
–	–	1x240 Flex	16,9	28,5	32,5	2790	507	195
–	–	1x300 Flex	18,6	31,0	35,5	3420	582	210
–	–	2x1,0	3,7	7,5	10,0	140	15	60
27872	–	2x1,5	4,1	8,0	10,5	160	20	65
27873	–	2x2,5	4,5	9,0	11,5	190	26	70
27874	–	2x4	5,1	10,0	13,0	245	34	75
27875	–	2x6	5,6	11,0	14,0	365	44	85
27876	–	2x10	8,9	13,5	16,5	540	61	100
27877	–	2x16 Flex	11,4	15,5	19,0	730	80	115
27878	–	2x25 Flex	12,6	19,5	23,5	1070	105	140
27879	–	2x35 Flex	14,8	22,0	25,5	1350	130	155
27880	–	2x50 Flex	16,6	26,0	30,0	1815	167	180
27881	–	2x70 Flex	19,0	30,0	34,5	2420	204	205
–	–	2x95 Flex	21,5	35,0	39,5	3150	241	240
–	–	3x1,0	4,0	8,0	10,5	170	13	65
27882	28444	3x1,5	4,3	8,5	11,0	190	16	65
27883	28445	3x2,5	4,8	9,5	12,5	240	21	75
27884	28446	3x4	5,5	10,5	13,5	305	28	80
27885	28447	3x6	11,3	12,5	15,5	485	36	90
27886	28448	3x10	9,6	14,5	17,5	630	50	105
27887	28449	3x16 Flex	11,5	17,5	20,5	890	66	125
27888	28450	3x25 Flex	14,7	21,5	25,5	1315	86	155
27889	28451	3x35 Flex	15,8	24,0	28,0	1675	107	170
27890	28452	3x50 Flex	18,5	28,5	33,0	2280	137	200
27891	28453	3x70 Flex	22,2	32,5	37,5	3055	168	225
27892	28454	3x95 Flex	32,5	38,5	43,5	4055	199	260
27893	28455	3x120 Flex	36,1	42,5	48,0	4980	232	290
27894	28456	3x150 Flex	40,2	48,0	54,0	6200	267	325
–	–	4x1,0	4,4	9,0	11,5	195	13	70
27897	28459	4x1,5	4,8	9,5	12,5	230	16	75
27898	28460	4x2,5	5,4	10,5	13,5	280	21	80
27899	28461	4x4	11,3	12,0	15,0	420	28	90
27900	28462	4x6	9,2	13,5	16,5	540	36	100
27905	28463	4x10	10,7	16,0	19,5	760	50	115
27906	28464	4x16 Flex	12,8	19,0	23,0	1085	66	135
27907	28465	4x25 Flex	15,6	24,0	28,0	1585	86	165
27908	28466	4x35 Flex	18,3	26,5	31,0	2080	107	185
27909	28467	4x50 Flex	20,4	32,0	36,5	2810	137	220
27910	28468	4x70 Flex	23,3	36,5	41,5	3820	168	250
27912	28469	4x95 Flex	36,1	43,0	48,5	5025	199	290
27913	28470	4x120 Flex	40,2	47,5	53,5	6245	232	320
–	–	4x150 Flex	44,8	53,5	60,5	7770	267	360

Part number for oil resistant SHF2 cable:
4 + code from above table → 4xxxxx

Table continues on next page

LKSM-EMC-FRHF 0,6/1kV		Number of conductors & cross-section n x mm²	Cross- section of armour mm²	Diameter of screen mm	Nominal outer diameter mm	Approx- imate weight kg/km	Current Rating A at +45°C	Min. bending radius fixed installation mm
Part number								
–	–	5x1,0	4,9	9,5	12,5	230	10	75
27914	28471	5x1,5	5,3	10,5	13,0	265	13	80
27915	28472	5x2,5	6,0	11,5	14,5	330	17	85
27916	28473	5x4	11,3	13,5	16,5	485	23	100
27917	28474	5x6	11,4	15,0	18,0	650	30	110
27918	28475	5x10	11,9	18,0	21,5	930	42	130
27919	28476	5x16 Flex	14,1	21,0	25,0	1310	55	150
27920	28477	5x25 Flex	17,2	26,5	30,5	1915	71	185
–	–	7x1,0	5,4	10,5	13,5	270	9	80
–	–	10x1,0	9,6	14,0	17,0	400	8	105
–	–	12x1,0	10,0	14,5	18,0	445	8	105
–	–	14x1,0	10,5	15,5	18,5	495	7	110
–	–	16x1,0	11,1	16,5	19,5	540	7	115
–	–	19x1,0	11,8	17,0	20,5	630	7	125
–	–	24x1,0	13,9	20,5	24,0	815	6	145
–	–	27x1,0	14,4	21,0	24,5	870	6	150
–	–	30x1,0	14,9	21,5	25,5	935	6	155
–	–	37x1,0	16,2	23,5	27,5	1090	5	165
27921	28478	7x1,5	5,9	11,5	14,5	315	12	85
27923	28480	10x1,5	10,5	15,0	18,5	475	11	110
27925	28482	12x1,5	10,9	15,5	19,0	525	10	115
27927	28484	14x1,5	11,5	16,5	20,0	585	10	120
27929	28486	16x1,5	12,2	17,5	21,0	665	9	125
27931	28488	19x1,5	12,9	18,5	22,0	780	9	135
27933	28490	24x1,5	15,3	22,0	26,0	975	8	155
27935	28492	27x1,5	15,8	22,5	26,5	1055	8	160
–	–	30x1,5	16,4	23,5	27,5	1135	7	165
27937	28494	37x1,5	17,8	25,5	30,0	1345	7	180
27922	28479	7x2,5	11,3	13,0	16,0	455	16	95
27924	28481	10x2,5	11,7	17,0	20,0	600	14	120
27926	28483	12x2,5	12,1	17,5	21,0	700	13	125
27928	28485	14x2,5	12,8	18,5	22,0	780	12	135
27930	28487	16x2,5	13,6	19,5	23,5	860	12	140
27932	28489	19x2,5	14,4	21,0	24,5	1020	11	150
27934	28491	24x2,5	17,2	24,5	28,5	1280	10	170
27936	28493	27x2,5	17,6	25,5	29,5	1410	10	180
–	–	30x2,5	18,3	26,5	30,5	1525	10	185
27938	28495	37x2,5	20,0	28,5	33,0	1790	9	200

Other sizes on request.

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4 + code from above table → 4xxxxx



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