

LKSM-FRHF

Fire-resistant armoured power and control cable 0,6/1kV



DESIGN:

STANDARDS:
IEC 60092-353, design

1. Conductor		
- stranded copper conductor 1,0–10mm ²	IEC 60228, class 2	
- stranded copper conductor 16–300mm ²	IEC 60228, class 5 (Flex)	
- tinned stranded copper conductor on request		
2. Insulation		
- Mica tape		
- XLPE plastic	EC 60092-360	
3. Bedding		
- separator tape		
4. Armour		
- copper wire braid, coverage > 90%	IEC 60092-350	
- tinned copper wire braid on request		
5. Sheath		
- polyolefine plastic, SHF1, standard colour orange	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. If the cable is exposed to direct sun light protective covering or cable with black outer sheath is recommended.

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 or 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

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-FRHF 0,6/1kV		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
Part number Normal	G-type						
28541	–	1x1,0	3,0	6,5	75	18	40
28568	–	1x1,5	3,0	6,5	80	23	40
28570	–	1x2,5	3,1	7,0	95	30	45
28572	–	1x4	3,1	7,5	115	40	45
28574	–	1x6	3,1	8,5	140	52	50
28576	–	1x10	3,5	9,5	200	72	60
29060	27058	1x16 Flex	4,1	11,0	255	94	65
29061	27060	1x25 Flex	5,2	13,5	380	123	85
29062	27062	1x35 Flex	5,5	14,5	475	153	90
29063	27064	1x50 Flex	8,7	16,5	660	196	100
29064	27066	1x70 Flex	11,4	19,0	905	240	115
29065	27068	1x95 Flex	11,5	20,5	1125	284	125
29066	27070	1x120 Flex	12,3	22,5	1395	331	140
29067	27072	1x150 Flex	14,7	25,5	1735	381	155
29068	27074	1x185 Flex	15,2	27,5	2065	429	170
29069	27076	1x240 Flex	18,2	30,5	2710	507	185
29070	27078	1x300 Flex	18,7	34,0	3315	582	210
28542	–	2x1,0	3,5	9,5	120	15	60
28602	–	2x1,5	3,8	10,5	140	20	65
28604	–	2x2,5	4,3	11,5	170	26	70
28606	–	2x4	4,9	12,5	225	34	75
28608	–	2x6	5,4	14,0	345	44	85
28610	–	2x10	8,7	16,5	510	61	100
29071	–	2x16 Flex	10,0	19,0	670	80	115
29072	–	2x25 Flex	14,5	23,5	1035	105	145
29073	–	2x35 Flex	14,7	25,5	1275	130	155
29074	–	2x50 Flex	18,1	29,5	1715	167	180
29075	–	2x70 Flex	18,7	33,5	2300	204	205
29076	–	2x95 Flex	22,2	37,0	2900	241	225
28543	28544	3x1,0	4,1	10,0	145	13	60
28622	28623	3x1,5	4,1	11,0	170	16	65
28624	28625	3x2,5	4,6	12,0	210	21	70
28626	28627	3x4	5,2	13,5	280	28	80
28628	28629	3x6	5,8	14,5	400	36	90
28630	28631	3x10	9,3	17,5	605	50	105
29082	29083	3x16 Flex	10,7	20,0	800	66	120
29084	29085	3x25 Flex	14,6	25,0	1225	86	155
29086	29087	3x35 Flex	15,0	27,0	1550	107	165
29088	29089	3x50 Flex	17,5	31,5	2125	137	190
29090	29091	3x70 Flex	22,0	36,0	2900	168	220
29092	29093	3x95 Flex	22,8	40,0	3660	199	240
29094	29095	3x120 Flex	37,8	45,0	4710	232	270
29096	29097	3x150 Flex	39,3	51,0	5850	267	310
29098	29099	3x185 Flex	47,9	56,0	7145	300	340
29100	29101	3x240 Flex	50,7	63,0	9315	355	380
28545	28546	4x1,0	4,1	11,0	170	13	65
28642	28643	4x1,5	4,5	12,0	200	16	70
28644	28645	4x2,5	5,0	13,5	260	21	80
28646	28647	4x4	5,8	14,5	345	28	85
28648	28649	4x6	8,8	16,5	515	36	100
28650	28651	4x10	10,3	19,0	735	50	115
29104	29105	4x16 Flex	11,9	22,5	1010	66	135
29106	29107	4x25 Flex	14,8	27,5	1515	86	170
29108	29109	4x35 Flex	18,1	30,0	1960	107	180
29110	29111	4x50 Flex	19,5	35,0	2685	137	210
29112	29113	4x70 Flex	22,6	40,0	3655	168	240
29114	29115	4x95 Flex	35,0	45,0	4795	199	270
29116	29117	4x120 Flex	39,3	49,5	5980	232	300
29118	29119	4x150 Flex	48,2	56,5	7540	267	340

G-type is with yellow/green earth conductor and marking on sheath is, for example, 3G1,5

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

Table continues on next page

LKSM-FRHF 0,6/1kV		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
Part number Normal	G-type						
28547	28548	5x1,0	4,5	12,0	195	10	70
28662	28663	5x1,5	5,0	13,0	245	13	80
28664	28665	5x2,5	5,6	14,5	305	17	85
28705	28706	5x4	8,6	16,5	445	23	100
28707	28708	5x6	9,7	18,0	605	30	105
28709	28710	5x10	11,5	21,0	880	42	125
29126	29127	5x16 Flex	13,2	24,5	1135	55	150
29128	29129	5x25 Flex	18,1	30,5	1740	71	185
29130	29131	5x35 Flex	18,6	33,0	2370	89	200
29132	29133	5x50 Flex	22,4	38,5	3240	114	230
28549	28550	7x1,0	4,9	13,0	240	9	80
28551	28552	10x1,0	8,7	16,5	355	8	100
28553	28554	12x1,0	9,0	17,0	395	8	100
28555	28556	14x1,0	11,4	18,0	455	7	105
28557	28558	16x1,0	11,4	19,0	505	7	115
28559	28560	19x1,0	11,4	20,0	555	7	120
28561	28562	24x1,0	12,5	23,5	695	6	140
28563	28564	27x1,0	12,8	24,0	750	6	145
28565	28566	37x1,0	14,4	26,5	960	5	160
28666	28667	7x1,5	5,4	14,5	295	12	85
28723	28724	10x1,5	9,6	18,0	430	11	110
28670	28671	12x1,5	9,9	19,0	490	10	115
28727	28728	14x1,5	11,4	20,0	555	10	120
28731	28732	16x1,5	11,5	21,0	615	9	125
28674	28675	19x1,5	11,7	22,0	680	9	130
28678	28679	24x1,5	13,9	26,0	875	8	155
28682	28683	27x1,5	14,1	26,5	950	8	160
28684	28685	37x1,5	16,0	29,5	1220	7	180
28668	28669	7x2,5	8,5	16,0	405	16	95
28725	28726	12x2,5	11,5	20,0	570	14	120
28672	28673	10x2,5	11,5	21,0	635	13	125
28729	28730	14x2,5	11,8	22,5	735	13	135
28733	28734	16x2,5	12,5	23,5	820	12	140
28676	28677	19x2,5	13,2	24,5	920	11	145
28680	28681	24x2,5	15,7	29,0	1165	10	175
28686	28687	27x2,5	16,1	29,5	1270	10	175
28688	28689	37x2,5	18,1	33,0	1660	9	200

Other sizes on request.

G-type is with yellow/green earth conductor and marking on sheath is, for example, 3G1,5

Part number for oil resistant SHF2 cable:
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