



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. Cabling / bedding	- cabling with optional fillers or dummy cores to obtain symmetrical and round construction
4. Armour	- copper wire braid, coverage > 90% IEC 60092-350 - tinned copper wire braid on request
5. Rip cord	- rip cord for conductors from 16mm ²
6. 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 off shore 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)
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
Temperature rating:	Maximum conductor temperature + 90 °C Fixed installation - 40 °C to +80 °C Minimum recommended installation temperature - 15 °C

For details see general information section

LKSM-FRHF 0,6/1kV Part number Normal G-type		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
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	665	80	115
29072	-	2x25 Flex	14,5	23,5	1030	105	145
29073	-	2x35 Flex	14,7	25,5	1290	130	155
29074	-	2x50 Flex	18,1	29,5	1735	167	180
29075	-	2x70 Flex	18,7	33,5	2320	204	205
29076	-	2x95 Flex	22,2	37,0	2985	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	815	66	120
29084	29085	3x25 Flex	14,6	25,0	1255	86	155
29086	29087	3x35 Flex	15,0	27,0	1575	107	165
29088	29089	3x50 Flex	17,5	31,5	2175	137	190
29090	29091	3x70 Flex	22,0	36,0	2970	168	220
29092	29093	3x95 Flex	22,8	40,0	3770	199	240
29094	29095	3x120 Flex	37,8	45,0	4860	232	270
29096	29097	3x150 Flex	39,3	51,0	6030	267	310
29098	29099	3x185 Flex	47,9	56,0	7370	300	340
29100	29101	3x240 Flex	50,7	63,0	9575	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

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

LKSM-FRHF 0,6/1kV Part number Normal G-type		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
29104	29105	4x16 Flex	11,9	22,5	1005	66	135
29106	29107	4x25 Flex	14,8	27,5	1495	86	170
29108	29109	4x35 Flex	16,7	30,0	1935	107	180
29110	29111	4x50 Flex	19,5	35,0	2665	137	210
29112	29113	4x70 Flex	22,6	40,0	3615	168	240
29114	29115	4x95 Flex	35,0	45,0	4755	199	270
29116	29117	4x120 Flex	39,3	49,5	5930	232	300
29118	29119	4x150 Flex	48,2	56,5	7470	267	340
28547	28548	5x1,0	4,5	12,0	200	10	70
28662	28663	5x1,5	5,0	13,0	245	13	80
28664	28665	5x2,5	5,6	14,5	310	17	85
28705	28706	5x4	8,6	16,5	450	23	100
28707	28708	5x6	9,7	18,0	610	30	105
28709	28710	5x10	11,5	21,0	890	42	125
29126	29127	5x16 Flex	13,2	24,5	1205	55	150
29128	29129	5x25 Flex	18,1	30,5	1845	71	185
29130	29131	5x35 Flex	18,6	33,0	2395	89	200
29132	29133	5x50 Flex	22,4	38,5	3275	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	390	8	100
28555	28556	14x1,0	11,4	17,5	450	7	105
28557	28558	16x1,0	11,4	18,5	505	7	110
28559	28560	19x1,0	11,4	19,5	555	7	120
28561	28562	24x1,0	12,5	23,0	695	6	140
28563	28564	27x1,0	12,8	23,5	750	6	140
28565	28566	37x1,0	14,4	26,0	960	5	155
28666	28667	7x1,5	5,4	14,0	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	19,5	555	10	120
28731	28732	16x1,5	11,5	20,5	615	9	125
28674	28675	19x1,5	11,7	21,5	680	9	130
28678	28679	24x1,5	13,9	25,5	875	8	155
28682	28683	27x1,5	14,1	26,0	950	8	155
28684	28685	37x1,5	16,0	29,5	1225	7	175
28668	28669	7x2,5	8,5	16,0	410	16	95
28725	28726	10x2,5	11,5	20,0	570	14	120
28672	28673	12x2,6	11,5	20,5	640	13	125
28729	28730	14x2,5	11,8	22,0	735	13	130
28733	28734	16x2,5	12,5	23,0	825	12	140
28676	28677	19x2,5	13,2	24,5	925	11	145
28680	28681	24x2,5	15,7	28,5	1170	10	170
28686	28687	27x2,5	16,1	29,0	1275	10	175
28688	28689	37x2,5	18,1	33,0	1670	9	195

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:

4 + code from above table →4xxxxx