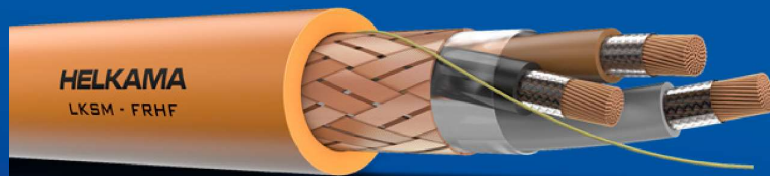


# LKSM-FRHF

0.6/1 kV

Fire-resistant armoured power and control cable



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

<b>CONDUCTOR</b>	Stranded copper conductor 1.0-10 mm <sup>2</sup> , IEC 60228 Class 2 Stranded copper conductor 16-300 mm <sup>2</sup> , IEC 60228 Class 5
<b>INSULATION</b>	Mica tape XLPE
<b>CABLING/BEDDING</b>	Cabling, cores twisted together, with optional fillers or dummy cores for symmetrical and round construction. Bedding, lapped tape.
<b>ARMOUR</b>	Copper wire braid, coverage > 90% Tinned copper wire braid on request
<b>RIP CORD</b>	For conductors ≥ 16 mm <sup>2</sup>
<b>SHEATH</b>	Polyolefine SHF1, IEC 60092-360 Thermosetting polyolefine SHF2 on request
<b>REFERENCE STANDARD</b>	Standard colour orange, SHF2 standard colour black, other colours on request IEC 60092-353

## APPLICATION

Fire-resistant armoured power and control cable. For fixed installation in most areas, and on open deck in ships and offshore units. If the cable is exposed to direct sunlight, protective covering or cable with black outer sheath is recommended.

## PHYSICAL PROPERTIES:

**CORE IDENTIFICATION** Colour code for 1...4 core cables, number code for 5...37 core cables

**MARINE TYPE APPROVALS** ABS, BV, CCS, CRS, DNV, KR, LR, RINA

## MAIN CHARACTERISTICS:

**RATED VOLTAGE** AC 0.6/1 kV (1.2 kV)  
DC 0.9/1.5 kV (if voltage to earth does not exceed 0.9 kV)

**FIRE PERFORMANCE** IEC 60332-1-2  
IEC 60332-3-22

**FIRE-RESISTANT** IEC 60331-1 / IEC 60331-2 (180 min)

**HALOGEN-FREE** IEC 60754 series

**SMOKE EMISSION** IEC 61034 series

**OIL RESISTANCE (SHF2 only)** IEC 60811-404 conditions according to 60092-360/SHF2

**MIN. INSTALLATION TEMPERATURE** -15 °C

**OPERATING TEMPERATURE** -40 - 80 °C fixed installation

**MAXIMUM CONDUCTOR TEMPERATURE** 90 °C

## LKSM-FRHF 0.6/1 kV

Part number	G-type	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)
28541	-	1 x 1.0	3.0	6.5	75	18	40
28568	-	1 x 1.5	3.0	6.5	80	23	40
28570	-	1 x 2.5	3.1	7.0	95	30	45
28572	-	1 x 4	3.1	7.5	115	40	45
28574	-	1 x 6	3.1	8.5	140	52	50
28576	-	1 x 10	3.5	9.5	200	72	60
29060	27058	1 x 16 cl5	4.1	11.0	255	94	65
29061	27060	1 x 25 cl5	5.2	13.5	380	123	85
29062	27062	1 x 35 cl5	5.5	14.5	475	153	90
29063	27064	1 x 50 cl5	8.7	16.5	660	196	100
29064	27066	1 x 70 cl5	11.4	19.0	905	240	115
29065	27068	1 x 95 cl5	11.5	20.5	1125	284	125
29066	27070	1 x 120 cl5	12.3	22.5	1395	331	140
29067	27072	1 x 150 cl5	14.7	25.5	1735	381	155
29068	27074	1 x 185 cl5	15.2	27.5	2065	429	170
29069	27076	1 x 240 cl5	18.2	30.5	2710	507	185
29070	27078	1 x 300 cl5	18.7	34.0	3315	582	210
28542	-	2 x 1.0	3.5	9.5	120	15	60
28602	-	2 x 1.5	3.8	10.5	140	20	65
28604	-	2 x 2.5	4.3	11.5	170	26	70
28606	-	2 x 4	4.9	12.5	225	34	75
28608	-	2 x 6	5.4	14.0	345	44	85
28610	-	2 x 10	8.7	16.5	510	61	100
29071	-	2 x 16 cl5	10.0	19.0	665	80	115
29072	-	2 x 25 cl5	14.5	23.5	1030	105	145
29073	-	2 x 35 cl5	14.7	25.5	1290	130	155
29074	-	2 x 50 cl5	18.1	29.5	1735	167	180
29075	-	2 x 70 cl5	18.7	33.5	2320	204	205
29076	-	2 x 95 cl5	22.2	37.0	2985	241	225
28543	28544	3 x 1.0	4.1	10.0	145	13	60
28622	28623	3 x 1.5	4.1	11.0	170	16	65
28624	28625	3 x 2.5	4.6	12.0	210	21	70
28626	28627	3 x 4	5.2	13.5	280	28	80
28628	28629	3 x 6	5.8	14.5	400	36	90
28630	28631	3 x 10	9.3	17.5	605	50	105
29082	29083	3 x 16 cl5	10.7	20.0	815	66	120
29084	29085	3 x 25 cl5	14.6	25.0	1255	86	155
29086	29087	3 x 35 cl5	15.0	27.0	1575	107	165
29088	29089	3 x 50 cl5	17.5	31.5	2175	137	190
29090	29091	3 x 70 cl5	22.0	36.0	2970	168	220
29092	29093	3 x 95 cl5	22.8	40.0	3770	199	240
29094	29095	3 x 120 cl5	37.8	45.0	4860	232	270
29096	29097	3 x 150 cl5	39.3	51.0	6030	267	310
29098	29099	3 x 185 cl5	47.9	56.0	7370	300	340
29100	29101	3 x 240 cl5	50.7	63.0	9575	355	380
28545	28546	4 x 1.0	4.1	11.0	170	13	65
28642	28643	4 x 1.5	4.5	12.0	200	16	70
28644	28645	4 x 2.5	5.0	13.5	260	21	80

Standard length 1000 m

Table continues on next page

G-type with yellow/green earth conductor and G-marking on sheath e.g. 3G1.5  
SHF2 on request. Part number for SHF2 cables 4 + code from above table → 4xxxxx

## LKSM-FRHF 0.6/1 kV

Part number	G-type	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)
28646	28647	4 x 4	5.8	14.5	345	28	85
28648	28649	4 x 6	8.8	16.5	515	36	100
28650	28651	4 x 10	10.3	19.0	735	50	115
29104	29105	4 x 16 cl5	11.9	22.5	1005	66	135
29106	29107	4 x 25 cl5	14.8	27.5	1495	86	170
29108	29109	4 x 35 cl5	16.7	30.0	1935	107	180
29110	29111	4 x 50 cl5	19.5	35.0	2665	137	210
29112	29113	4 x 70 cl5	22.6	40.0	3615	168	240
29114	29115	4 x 95 cl5	35.0	45.0	4755	199	270
29116	29117	4 x 120 cl5	39.3	49.5	5930	232	300
29118	29119	4 x 150 cl5	48.2	56.5	7470	267	340
28547	28548	5 x 1.0	4.5	12.0	200	10	70
28662	28663	5 x 1.5	5.0	13.0	245	13	80
28664	28665	5 x 2.5	5.6	14.5	310	17	85
28705	28706	5 x 4	8.6	16.5	450	23	100
28707	28708	5 x 6	9.7	18.0	610	30	105
28709	28710	5 x 10	11.5	21.0	890	42	125
29126	29127	5 x 16 cl5	13.2	24.5	1205	55	150
29128	29129	5 x 25 cl5	18.1	30.5	1845	71	185
29130	29131	5 x 35 cl5	18.6	33.0	2395	89	200
29132	29133	5 x 50 cl5	22.4	38.5	3275	114	230
28549	28550	7 x 1.0	4.9	13.0	240	9	80
28551	28552	10 x 1.0	8.7	16.5	355	8	100
28553	28554	12 x 1.0	9.0	17.0	390	8	100
28555	28556	14 x 1.0	11.4	17.5	450	7	105
28557	28558	16 x 1.0	11.4	18.5	505	7	110
28559	28560	19 x 1.0	11.4	19.5	555	7	120
28561	28562	24 x 1.0	12.5	23.0	695	6	140
28563	28564	27 x 1.0	12.8	23.5	750	6	140
28565	28566	37 x 1.0	14.4	26.0	960	5	155
28666	28667	7 x 1.5	5.4	14.0	295	12	85
28723	28724	10 x 1.5	9.6	18.0	430	11	110
28670	28671	12 x 1.5	9.9	19.0	490	10	115
28727	28728	14 x 1.5	11.4	19.5	555	10	120
28731	28732	16 x 1.5	11.5	20.5	615	9	125
28674	28675	19 x 1.5	11.7	21.5	680	9	130
28678	28679	24 x 1.5	13.9	25.5	875	8	155
28682	28683	27 x 1.5	14.1	26.0	950	8	155
28684	28685	37 x 1.5	16.0	29.5	1225	7	175
28668	28669	7 x 2.5	8.5	16.0	410	16	95
28725	28726	10 x 2.5	11.5	20.0	570	14	120
28672	28673	12 x 2.6	11.5	20.5	640	13	125
28729	28730	14 x 2.5	11.8	22.0	735	13	130
28733	28734	16 x 2.5	12.5	23.0	825	12	140
28676	28677	19 x 2.5	13.2	24.5	925	11	145
28680	28681	24 x 2.5	15.7	28.5	1170	10	170
28686	28687	27 x 2.5	16.1	29.0	1275	10	175
28688	28689	37 x 2.5	18.1	33.0	1670	9	195

Standard length 1000 m

G-type with yellow/green earth conductor and G-marking on sheath e.g. 3G1.5

SHF2 on request. Part number for SHF2 cables 4 + code from above table → 4xxxxx

Other sizes on request.

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

© 2022 Helkama Bica Oy. All rights reserved.