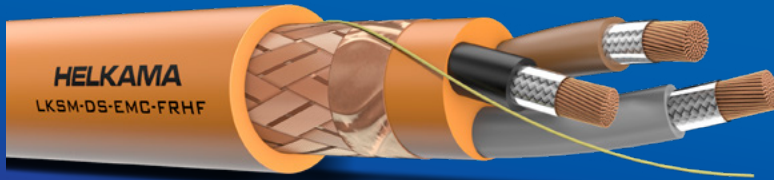


LKSM-DS-EMC-FRHF

0.6/1 kV

Fire resistant double sheathed and armoured power and control cable with improved EMC-screening

0.6/1 kV CABLES



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

CONDUCTOR	Stranded copper conductor 1.0-10 mm ² , IEC 60228 Class 2 Stranded copper conductor 16-300 mm ² , IEC 60228 Class 5
INSULATION	Special grade Mica tape XLPE
CABLING/BEDDING	Cabling, cores twisted together, with optional fillers or dummy cores for symmetrical and round construction. Bedding, lapped tape.
INNER SHEATH	Polyolefine SHF1, IEC 60092-360 Thermosetting polyolefine SHF2 on request Standard colour grey, other colours on request
SCREEN	Copper tape, coverage 100%
ARMOUR	Copper wire braid, coverage > 90%, IEC 60092-350 Tinned copper wire braid on request
RIP CORD	For conductors ≥ 16 mm ²
SHEATH	Polyolefine SHF1, IEC 60092-360 Thermosetting polyolefine SHF2 on request Standard colour orange, SHF2 standard colour black, other colours on request
REFERENCE STANDARD	IEC 60092-353

APPLICATION

Fire-resistant double sheathed and armoured power and control cable with improved EMC-screening. 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. Specially designed cables with screen for improved screening properties to address EMI/EMC problems.

PHYSICAL PROPERTIES:

CORE IDENTIFICATION	Colour code 1...4 core cables, number code for 5...37 core cable
MARINE TYPE APPROVALS	ABS, BV, LR

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

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LKSM-DS-EMC-FRHF 0.6/1 kV

Part number	Part number G-type	No. of conductors x Conductor area (mm ²)	Diameter of inner sheath	Cross-section of armour mm ²	Nominal outer Ø (mm)	Weight (kg/km)	Current rating A	Min. bending radius mm (fixed)
---	2340105010	1 x 1.0 mm ²	5.5	2.6	8.0	110	18	65
---	2340107010	1 x 1.5 mm ²	5.5	2.6	8.5	115	23	70
---	2340108010	1 x 2.5 mm ²	6.0	3.3	8.5	140	30	70
---	2340109010	1 x 4 mm ²	6.5	3.3	9.5	160	40	75
---	2340110010	1 x 6 mm ²	7.5	3.3	10.0	185	52	80
---	2340111010	1 x 10 mm ²	8.5	3.9	11.0	250	72	90
---	2340212010	1 x 16 mm ² cl5	9.5	4.6	12.0	310	94	95
---	2340213010	1 x 25 mm ² cl5	11.5	4.7	14.5	435	123	115
---	2340214010	1 x 35 mm ² cl5	12.5	10.1	15.5	580	153	125
---	2340215010	1 x 50 mm ² cl5	14.5	10.2	17.5	750	196	140
---	2340216010	1 x 70 mm ² cl5	16.5	10.8	20.0	995	240	160
---	2340217010	1 x 95 mm ² cl5	18.5	13.0	21.5	1240	284	170
---	2340218010	1 x 120 mm ² cl5	20.5	13.2	24.0	1530	331	190
---	2340219010	1 x 150 mm ² cl5	23.5	16.0	27.0	1900	381	215
---	2340220010	1 x 185 mm ² cl5	25.5	16.2	29.5	2260	429	235
---	2340221010	1 x 240 mm ² cl5	28.5	17.9	32.5	2885	507	260
---	2340222010	1 x 300 mm ² cl5	32.0	19.6	36.0	3545	582	290
---	2340105020	2 x 1.0 mm ²	8.5	3.9	11.0	175	15	90
---	2340107020	2 x 1.5 mm ²	9.0	4.0	11.5	190	20	90
---	2340108020	2 x 2.5 mm ²	10.5	4.6	13.0	240	26	105
---	2340109020	2 x 4 mm ²	11.5	4.7	14.5	300	34	115
---	2340110020	2 x 6 mm ²	12.5	10.1	16.0	550	44	130
---	2340111020	2 x 10 mm ²	15.0	10.2	18.0	730	61	145
---	2340212020	2 x 16 mm ² cl5	17.5	10.9	20.5	930	80	165
---	2340213020	2 x 25 mm ² cl5	22.0	13.4	25.5	1385	105	205
---	2340214020	2 x 35 mm ² cl5	24.0	16.1	27.5	1735	130	220
---	2340215020	2 x 50 mm ² cl5	27.5	17.5	31.5	2260	167	250
---	2340216020	2 x 70 mm ² cl5	32.0	19.9	36.0	3050	204	290
---	2340217020	2 x 95 mm ² cl5	35.5	35.7	40.5	4045	241	325
---	2340105030	3 x 1.0 mm ²	9.0	3.9	11.5	200	13	90
---	2340107030	3 x 1.5 mm ²	9.5	4.6	12.0	225	16	95
---	2340108030	3 x 2.5 mm ²	11.0	4.6	14.0	285	21	110
---	2340109030	3 x 4 mm ²	12.0	10.1	15.5	405	28	125
---	2340110030	3 x 6 mm ²	13.5	10.1	17.0	590	36	135
---	2340111030	3 x 10 mm ² cl5	16.0	10.2	19.5	790	50	155
---	2340212030	3 x 16 mm ² cl5	18.5	12.9	22.0	1055	66	175
---	2340213030	3 x 25 mm ² cl5	23.5	16.0	27.5	1610	86	220
---	2340214030	3 x 35 mm ² cl5	25.5	16.3	29.5	1980	107	235
---	2340215030	3 x 50 mm ² cl5	29.5	18.8	34.0	2660	137	270
---	2340216030	3 x 70 mm ² cl5	34.5	21.5	39.0	3595	168	310
---	2340217030	3 x 95 mm ² cl5	38.0	36.5	43.5	4760	199	350
---	2340218030	3 x 120 mm ² cl5	43.0	38.4	48.0	5805	232	385
---	2340219030	3 x 150 mm ² cl5	49.0	42.9	54.5	7350	267	435
---	2340105040	4 x 1.0 mm ²	10.0	4.6	12.5	230	13	100
---	2340105040	4 x 1.0 mm ²	10.0	4.6	12.5	230	13	100
---	2340107040	4 x 1.5 mm ²	11.0	4.6	13.5	265	16	110
---	2340108040	4 x 2.5 mm ²	12.0	10.1	15.0	380	21	120
---	2340109040	4 x 4 mm ²	13.5	10.1	16.5	475	28	130
---	2340110040	4 x 6 mm ²	15.0	10.2	18.5	670	36	150
---	2340111040	4 x 10 mm ²	17.5	12.9	21.0	930	50	170
---	2340212040	4 x 16 mm ² cl5	21.0	13.1	24.5	1255	66	195
---	2340213040	4 x 25 mm ² cl5	26.0	16.2	30.0	1850	86	240
---	2340214040	4 x 35 mm ² cl5	28.0	17.9	32.0	2310	107	255
---	2340215040	4 x 50 mm ² cl5	33.0	20.8	37.5	3155	137	300
---	2340216040	4 x 70 mm ² cl5	38.0	36.3	43.5	4410	168	350

Table continues on next page

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LKSM-DS-EMC-FRHF 0.6/1 kV

Part number	Part number G-type	No. of conductors x Conductor area (mm ²)	Diameter of inner sheath	Cross-section of armour mm ²	Nominal outer Ø (mm)	Weight (kg/km)	Current rating A	Min. bending radius mm (fixed)
---	2340217040	4 x 95 mm ² cI5	42.5	38.4	48.0	5560	199	385
---	2340218040	4 x 120 mm ² cI5	47.5	42.6	53.0	6865	232	425
---	2340219040	4 x 150 mm ² cI5	54.5	47.6	60.5	8620	267	485
---	2340105050	5 x 1.0 mm ²	11.0	4.6	13.5	275	10	110
---	2340107050	5 x 1.5 mm ²	12.0	4.7	14.5	310	13	115
---	2340108050	5 x 2.5 mm ²	13.0	10.1	16.5	435	17	130
---	2340109050	5 x 4 mm ²	15.0	10.2	18.0	555	23	145
---	2340110050	5 x 6 mm ²	16.5	10.5	20.0	775	30	160
---	2340111050	5 x 10 mm ²	19.5	13.0	23.0	1085	42	185
---	2340212050	5 x 16 mm ² cI5	23.5	16.0	27.0	1515	55	215
---	2340213050	5 x 25 mm ² cI5	29.0	17.5	33.0	2185	71	265
---	2340105070	7 x 1.0 mm ²	12.0	4.7	15.0	315	9	120
---	2340105100	10 x 1.0 mm ²	15.5	10.2	18.5	480	8	150
---	2340105120	12 x 1.0 mm ²	16.0	10.2	19.5	520	8	155
---	2340105140	14 x 1.0 mm ²	16.5	10.2	20.0	570	7	160
---	2340105160	16 x 1.0 mm ²	18.0	12.9	21.0	645	7	170
---	2340105190	19 x 1.0 mm ²	18.5	12.9	22.0	700	7	175
---	2340105240	24 x 1.0 mm ²	22.0	15.8	26.0	915	6	210
---	2340105270	27 x 1.0 mm ²	22.5	15.8	26.5	965	6	210
---	2340105300	30 x 1.0 mm ²	23.5	15.9	27.0	1025	5	215
---	2340105370	37 x 1.0 mm ²	25.5	16.1	29.5	1190	5	235
---	2340107070	7 x 1.5 mm ²	13.0	10.1	16.0	410	12	130
---	2340107100	10 x 1.5 mm ²	16.5	10.3	20.0	550	11	160
---	2340107120	12 x 1.5 mm ²	17.0	10.8	20.5	610	10	165
---	2340107140	14 x 1.5 mm ²	18.0	12.9	21.5	685	10	170
---	2340107160	16 x 1.5 mm ²	19.0	13.0	22.5	740	9	180
---	2340107190	19 x 1.5 mm ²	20.0	13.1	24.0	845	9	190
---	2340107240	24 x 1.5 mm ²	24.0	16.0	28.0	1080	8	225
---	2340107270	27 x 1.5 mm ²	24.5	16.1	28.5	1145	8	230
---	2340107300	30 x 1.5 mm ²	25.5	16.2	29.5	1240	7	235
---	2340107370	37 x 1.5 mm ²	27.5	17.0	31.5	1430	7	250
---	2340108070	7 x 2.5 mm ²	14.5	10.2	17.5	510	16	140
---	2340108100	10 x 2.5 mm ²	18.5	12.9	22.0	715	14	175
---	2340108120	12 x 2.5 mm ²	19.0	13.0	22.5	785	13	180
---	2340108140	14 x 2.5 mm ²	20.5	13.1	24.0	900	13	190
---	2340108160	16 x 2.5 mm ²	21.5	13.4	25.5	980	12	205
---	2340108190	19 x 2.5 mm ²	22.5	15.9	26.5	1105	11	210
---	2340108240	24 x 2.5 mm ²	27.0	16.7	31.0	1415	10	250
---	2340108270	27 x 2.5 mm ²	27.5	17.0	31.5	1520	10	250
---	2340108300	30 x 2.5 mm ²	29.0	17.6	32.5	1635	10	260
---	2340108370	37 x 2.5 mm ²	31.0	19.1	35.5	1925	9	285

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.