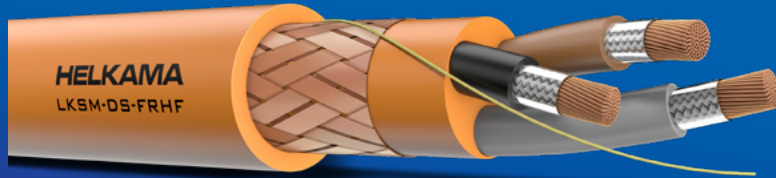


LKSM-DS-FRHF

0.6/1 kV

Fire resistant double sheathed and armoured power and control cable

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	Mica tapte 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
ARMOUR	Copper wire braid, coverage > 90% 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. 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 1...4 core cables, number code for 5...37 core cable
MARINE TYPE APPROVALS	ABS, BV, DNV, 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-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)
2610105010	---	1 x 1.0 mm ²	5.5	2.6	5.5	90	18	35
2610107010	---	1 x 1.5 mm ²	5.5	2.7	5.5	100	23	35
2610108010	---	1 x 2.5 mm ²	6.0	2.9	6.0	120	30	35
2610109010	---	1 x 4 mm ²	6.5	3.3	6.5	145	40	40
2610110010	---	1 x 6 mm ²	7.5	3.3	7.5	170	52	45
2610111010	---	1 x 10 mm ²	8.5	3.9	8.5	230	72	50
2610212010	---	1 x 16 mm ² cl5	10.0	4.6	10.0	300	94	60
2610213010	---	1 x 25 mm ² cl5	11.5	10.1	11.5	465	123	70
2610214010	---	1 x 35 mm ² cl5	12.5	10.1	12.5	570	153	75
2610215010	---	1 x 50 mm ² cl5	14.5	10.2	14.5	735	196	85
2610216010	---	1 x 70 mm ² cl5	16.5	11.2	16.5	965	240	100
2610217010	---	1 x 95 mm ² cl5	18.5	13.0	18.5	1240	284	110
2610218010	---	1 x 120 mm ² cl5	20.5	13.6	20.5	1500	331	125
2610219010	---	1 x 150 mm ² cl5	23.5	16.1	23.5	1860	381	140
2610220010	---	1 x 185 mm ² cl5	25.5	16.6	25.5	2230	429	155
2610221010	---	1 x 240 mm ² cl5	29.0	18.5	29.0	2875	507	175
2610222010	---	1 x 300 mm ² cl5	32.5	20.1	32.5	3535	582	195
2610105020	---	2 x 1.0 mm ²	8.5	3.9	8.5	155	15	50
2610107020	---	2 x 1.5 mm ²	9.5	4.6	9.5	190	20	55
2610108020	---	2 x 2.5 mm ²	10.5	4.6	10.5	230	26	65
2610109020	---	2 x 4 mm ²	11.5	10.1	11.5	325	34	70
2610110020	---	2 x 6 mm ²	13.0	10.1	13.0	535	44	80
2610111020	---	2 x 10 mm ²	15.0	10.2	15.0	710	61	90
2610212020	---	2 x 16 mm ² cl5	17.5	11.3	17.5	915	80	105
2610213020	---	2 x 25 mm ² cl5	21.5	13.6	21.5	1350	105	130
2610214020	---	2 x 35 mm ² cl5	23.5	16.1	23.5	1690	130	140
2610215020	---	2 x 50 mm ² cl5	27.0	17.7	27.0	2230	167	160
2610216020	---	2 x 70 mm ² cl5	32.0	20.3	32.0	3025	204	190
2610217020	---	2 x 95 mm ² cl5	35.0	35.8	35.0	3910	241	210
2610105030	2610105031	3 x 1.0 mm ²	8.5	4.0	8.5	175	13	50
2610107030	2610107031	3 x 1.5 mm ²	10.0	4.6	10.0	220	16	60
2610108030	2610108031	3 x 2.5 mm ²	11.0	4.7	11.0	265	21	65
2610109030	2610109031	3 x 4 mm ²	12.5	10.1	12.5	390	28	75
2610110030	2610110031	3 x 6 mm ²	13.5	10.2	13.5	565	36	80
2610105030	2610105031	3 x 1.0 mm ²	8.5	4.0	8.5	175	13	50
2610107030	2610107031	3 x 1.5 mm ²	10.0	4.6	10.0	220	16	60
2610108030	2610108031	3 x 2.5 mm ²	11.0	4.7	11.0	265	21	65
2610109030	2610109031	3 x 4 mm ²	12.5	10.1	12.5	390	28	75
2610110030	2610110031	3 x 6 mm ²	13.5	10.2	13.5	565	36	80
2610111030	2610111031	3 x 10 mm ²	16.0	10.6	16.0	780	50	95
2610212030	2610212031	3 x 16 mm ² cl5	18.5	13.0	18.5	1010	66	110
2610213030	2610213031	3 x 25 mm ² cl5	23.5	16.0	23.5	1525	86	140
2610214030	2610214031	3 x 35 mm ² cl5	25.0	16.5	25.0	1900	107	150
2610215030	2610215031	3 x 50 mm ² cl5	29.5	19.0	29.5	2550	137	175
2610216030	2610216031	3 x 70 mm ² cl5	34.0	21.7	34.0	3455	168	205
2610217030	2610217031	3 x 95 mm ² cl5	38.0	36.6	38.0	4520	199	230
2610218030	2610218031	3 x 120 mm ² cl5	42.5	38.7	42.5	5585	232	255
2610219030	2610219031	3 x 150 mm ² cl5	48.5	43.2	48.5	7015	267	290
2610220030	2610220031	3 x 185 mm ² cl5	53.5	47.6	53.5	8460	300	320
2610221030	2610221031	3 x 240 mm ² cl5	60.5	53.7	60.5	10985	355	365
2610105040	2610105041	4 x 1.0 mm ²	10.0	4.6	10.0	215	13	60
2610107040	2610107041	4 x 1.5 mm ²	11.0	4.7	11.0	255	16	65
2610108040	2610108041	4 x 2.5 mm ²	12.0	10.1	12.0	360	21	70
2610109040	2610109041	4 x 4 mm ²	13.5	10.1	13.5	450	28	80
2610110040	2610110041	4 x 6 mm ²	15.0	10.2	15.0	640	36	90

Table continues on next page

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LKSM-DS-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)
2610111040	2610111041	4 x 10 mm ²	17.5	12.9	17.5	905	50	105
2610212040	2610212041	4 x 16 mm ² cl5	20.5	13.3	20.5	1205	66	125
2610213040	2610213041	4 x 25 mm ² cl5	25.5	16.2	25.5	1785	86	155
2610214040	2610214041	4 x 35 mm ² cl5	28.0	18.3	28.0	2275	107	170
2610215040	2610215041	4 x 50 mm ² cl5	33.0	21.0	33.0	3075	137	200
2610216040	2610216041	4 x 70 mm ² cl5	38.0	36.5	38.0	4345	168	230
2610217040	2610217041	4 x 95 mm ² cl5	42.5	38.7	42.5	5465	199	255
2610218040	2610218041	4 x 120 mm ² cl5	47.5	43.1	47.5	6820	232	285
2610219040	2610219041	4 x 150 mm ² cl5	54.5	48.3	54.5	8575	267	325
2610105050	2610105051	5 x 1.0 mm ²	11.0	4.7	11.0	250	10	65
2610107050	2610107051	5 x 1.5 mm ²	12.0	10.1	12.0	345	13	70
2610108050	2610108051	5 x 2.5 mm ²	13.5	10.1	13.5	415	17	80
2610109050	2610109051	5 x 4 mm ²	15.0	10.2	15.0	535	23	90
2610110050	2610110051	5 x 6 mm ²	16.5	11.0	16.5	750	30	100
2610111050	2610111051	5 x 10 mm ²	19.5	13.1	19.5	1085	42	115
2610212050	2610212051	5 x 16 mm ² cl5	23.0	16.0	23.0	1450	55	140
2610213050	2610213051	5 x 25 mm ² cl5	28.5	17.7	28.5	2115	71	170
2610214050	2610214051	5 x 35 mm ² cl5	31.0	20.1	31.0	2755	89	185
2610215050	2610215051	5 x 50 mm ² cl5	36.0	36.0	36.0	3865	114	215
2610105070	2610105071	7 x 1.0 mm ²	11.5	10.1	11.5	340	9	70
2610107070	2610107071	7 x 1.5 mm ²	13.0	10.1	13.0	400	12	80
2610108070	2610108071	7 x 2.5 mm ²	14.5	10.2	14.5	495	16	85
2610105100	2610105101	10 x 1.0 mm ²	15.0	10.2	15.0	440	8	90
2610107100	2610107101	10 x 1.5 mm ²	16.5	10.9	16.5	535	11	100
2610108100	2610108101	10 x 2.5 mm ²	18.5	13.0	18.5	675	14	110
2610105120	2610105121	12 x 1.0 mm ²	15.5	10.2	15.5	480	8	95
2610107120	2610107121	12 x 1.5 mm ²	17.5	11.2	17.5	585	10	105
2610108120	2610108121	12 x 2.5 mm ²	19.5	13.0	19.5	780	13	115
2610105140	2610105141	14 x 1.0 mm ²	16.5	10.7	16.5	535	7	100
2610107140	2610107141	14 x 1.5 mm ²	18.0	12.9	18.0	660	10	110
2610108140	2610108141	14 x 2.5 mm ²	20.5	13.1	20.5	860	13	125
2610105160	2610105161	16 x 1.0 mm ²	17.0	11.3	17.0	590	7	100
2610107160	2610107161	16 x 1.5 mm ²	19.5	13.0	19.5	755	9	115
2610108160	2610108161	16 x 2.5 mm ²	21.5	13.8	21.5	950	12	130
2610105190	2610105191	19 x 1.0 mm ²	18.0	13.0	18.0	655	7	110
2610107190	2610107191	19 x 1.5 mm ²	20.5	13.1	20.5	825	9	125
2610108190	2610108191	19 x 2.5 mm ²	23.0	16.0	23.0	1095	11	140
2610105240	2610105241	24 x 1.0 mm ²	21.5	13.8	21.5	820	6	130
2610107240	2610107241	24 x 1.5 mm ²	24.0	16.1	24.0	1035	8	145
2610108240	2610108241	24 x 2.5 mm ²	27.0	17.1	27.0	1355	10	160
2610105270	2610105271	27 x 1.0 mm ²	22.0	14.1	22.0	875	6	130
2610107270	2610107271	27 x 1.5 mm ²	24.5	16.1	24.5	1125	8	145
2610108270	2610108271	27 x 2.5 mm ²	27.5	17.5	27.5	1460	10	165
2610105300	2610105301	30 x 1.0 mm ²	23.0	16.0	23.0	975	5	140
2610107300	2610107301	30 x 1.5 mm ²	25.5	16.2	25.5	1205	7	155
2610108300	2610108301	30 x 2.5 mm ²	29.0	18.2	29.0	1595	10	175
2610105370	2610105371	37 x 1.0 mm ²	24.5	16.2	24.5	1130	5	145
2610107370	2610107371	37 x 1.5 mm ²	28.0	17.4	28.0	1415	7	170
2610108370	2610108371	37 x 2.5 mm ²	31.0	19.6	31.0	1880	9	185

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.

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