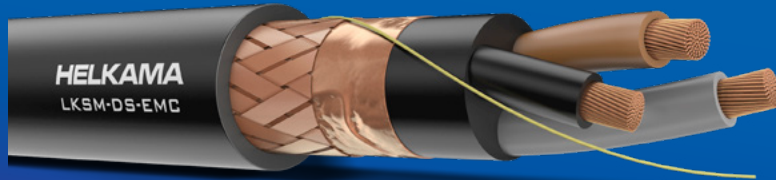


LKSM-DS-EMC

0.6/1 kV

Double sheathed and armoured power and control cable
with improved EMC-screening

0.6/1 kV CABLES



- Flame-retardant
- 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	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%, 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 black, other colours on request
REFERENCE STANDARD	IEC 60092-353

APPLICATION

Double sheathed and armoured power and control cable. For fixed installation in most areas, and on open deck in ships and offshore units. 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. DNV

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
HALOGEN-FREE	IEC 60754 series
SMOKE EMISSION	IEC 61034 series
OIL RESISTANCE (SHF2 only)	IEC 60811-404 conditions according to 60092-360/SHF2
TRANSFER IMPEDANCE	IEC 61196-1 (typical value 26 dB over 1 mΩ/m at 100 MHz [20 mΩ/m])
MIN. INSTALLATION TEMPERATURE	-15 °C
OPERATING TEMPERATURE	-40 - 80 °C fixed installation
MAXIMUM CONDUCTOR TEMPERATURE	90 °C

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LKSM-DS-EMC 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)
2240105010	---	1 x 1.0 mm ²	5.0	2.6	8.0	105	18	65
2240107010	---	1 x 1.5 mm ²	5.5	2.6	8.5	115	23	70
2240108010	---	1 x 2.5 mm ²	5.5	2.6	9.0	140	30	70
2240109010	---	1 x 4 mm ²	6.5	3.3	9.5	170	40	75
2240110010	---	1 x 6 mm ²	7.0	3.3	10.5	200	52	85
2240111010	---	1 x 10 mm ²	8.0	3.9	11.5	255	72	90
2240212010	---	1 x 16 mm ² cl5	9.0	4.0	12.5	325	94	100
2240213010	---	1 x 25 mm ² cl5	11.5	4.6	15.0	450	123	120
2240214010	---	1 x 35 mm ² cl5	12.5	10.1	16.5	610	153	130
2240215010	---	1 x 50 mm ² cl5	14.5	10.2	18.5	785	196	150
2240216010	---	1 x 70 mm ² cl5	16.5	10.8	21.0	1025	240	170
2240217010	---	1 x 95 mm ² cl5	18.0	13.0	23.0	1290	284	185
2240218010	---	1 x 120 mm ² cl5	21.0	13.3	26.0	1595	331	210
2240219010	---	1 x 150 mm ² cl5	23.0	16.0	28.5	1970	381	230
2240220010	---	1 x 185 mm ² cl5	25.5	16.2	30.5	2320	429	245
2240221010	---	1 x 240 mm ² cl5	28.5	18.0	34.0	2985	507	270
2240222010	---	1 x 300 mm ² cl5	31.5	19.7	37.5	3660	582	300
2240105020	---	2 x 1.0 mm ²	7.5	3.9	11.0	195	15	90
2240107020	---	2 x 1.5 mm ²	8.5	4.0	12.0	225	20	95
2240108020	---	2 x 2.5 mm ²	9.5	4.6	13.0	280	26	105
2240109020	---	2 x 4 mm ²	10.5	4.7	14.5	335	34	115
2240110020	---	2 x 6 mm ²	12.0	10.1	16.0	555	44	130
2240111020	---	2 x 10 mm ²	14.0	10.2	18.5	740	61	150
2240212020	---	2 x 16 mm ² cl5	17.0	11.1	21.5	1025	80	170
2240213020	---	2 x 25 mm ² cl5	21.0	13.4	26.0	1480	105	210
2240214020	---	2 x 35 mm ² cl5	23.0	16.1	28.0	1860	130	225
2240215020	---	2 x 50 mm ² cl5	26.5	17.4	32.5	2440	167	260
2240216020	---	2 x 70 mm ² cl5	31.0	19.9	36.5	3280	204	290
2240217020	---	2 x 95 mm ² cl5	34.5	35.7	41.5	4380	241	330
2240105030	2240105031	3 x 1.0 mm ²	8.0	3.9	11.5	210	13	90
2240107030	2240107031	3 x 1.5 mm ²	9.0	4.0	12.5	245	16	100
2240108030	2240108031	3 x 2.5 mm ²	10.0	4.6	14.0	310	21	110
2240109030	2240109031	3 x 4 mm ²	11.5	10.1	15.5	435	28	125
2240110030	2240110031	3 x 6 mm ²	13.0	10.1	17.0	595	36	135
2240111030	2240111031	3 x 10 mm ²	15.0	10.2	19.5	800	50	155
2240212030	2240212031	3 x 16 mm ² cl5	18.0	13.0	22.5	1115	66	180
2240213030	2240213031	3 x 25 mm ² cl5	22.5	16.0	27.5	1660	86	220
2240214030	2240214031	3 x 35 mm ² cl5	24.5	16.3	29.5	2020	107	235
2240215030	2240215031	3 x 50 mm ² cl5	29.0	18.7	34.5	2770	137	275
2240216030	2240216031	3 x 70 mm ² cl5	33.5	21.4	39.5	3735	168	315
2240217030	2240217031	3 x 95 mm ² cl5	37.5	36.5	44.5	4955	199	355
2240218030	2240218031	3 x 120 mm ² cl5	43.5	38.4	51.0	6200	232	410
2240219030	2240219031	3 x 150 mm ² cl5	47.5	42.6	55.5	7665	267	445
2240220030	2240220031	3 x 185 mm ² cl5	53.0	47.1	61.5	9225	300	490
2240105040	2240105041	4 x 1.0 mm ²	9.0	4.0	12.5	240	13	100
2240107040	2240107041	4 x 1.5 mm ²	10.0	4.6	13.5	290	16	110
2240108040	2240108041	4 x 2.5 mm ²	11.0	10.1	15.0	405	21	120
2240109040	2240109041	4 x 4 mm ²	12.5	10.1	16.5	505	28	130
2240110040	2240110041	4 x 6 mm ²	14.0	10.2	18.5	670	36	150
2240111040	2240111041	4 x 10 mm ²	16.5	11.1	21.5	940	50	170
2240212040	2240212041	4 x 16 mm ² cl5	20.0	13.1	25.0	1260	66	200
2240213040	2240213041	4 x 25 mm ² cl5	25.0	16.2	30.0	1845	86	240
2240214040	2240214041	4 x 35 mm ² cl5	27.0	17.9	32.5	2345	107	260
2240215040	2240215041	4 x 50 mm ² cl5	32.0	20.8	38.0	3210	137	305
2240216040	2240216041	4 x 70 mm ² cl5	37.0	36.3	44.0	4470	168	350

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LKSM-DS-EMC 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)
2240217040	2240217041	4 x 95 mm ² c15	41.5	38.4	49.0	5665	199	390
2240218040	2240218041	4 x 120 mm ² c15	48.0	42.6	56.0	7185	232	450
2240219040	2240219041	4 x 150 mm ² c15	53.5	47.5	62.0	8845	267	495
2240105050	2240105051	5 x 1.0 mm ²	10.0	4.6	13.5	290	10	110
2240107050	2240107051	5 x 1.5 mm ²	11.0	4.7	14.5	325	13	115
2240108050	2240108051	5 x 2.5 mm ²	12.0	10.1	16.0	455	17	130
2240109050	2240109051	5 x 4 mm ²	13.5	10.2	18.0	590	23	145
2240110050	2240110051	5 x 6 mm ²	15.5	10.5	20.0	780	30	160
2240111050	2240111051	5 x 10 mm ²	18.5	13.0	23.0	1110	42	185
2240212050	2240212051	5 x 16 mm ² c15	22.0	16.0	27.0	1515	55	215
2240213050	2240213051	5 x 25 mm ² c15	27.5	17.5	33.5	2220	71	270
2240105070	2240105071	7 x 1.0 mm ²	11.0	4.7	14.5	320	9	115
2240107070	2240107071	7 x 1.5 mm ²	11.5	10.1	16.0	430	12	130
2240108070	2240108071	7 x 2.5 mm ²	13.5	10.2	17.5	520	16	140
2240105100	2240105101	10 x 1.0 mm ²	14.0	10.2	18.0	485	8	145
2240107100	2240107101	10 x 1.5 mm ²	15.0	10.3	19.5	560	11	155
2240108100	2240108101	10 x 2.5 mm ²	17.0	11.6	21.5	720	14	170
2240105120	2240105121	12 x 1.0 mm ²	14.5	10.2	18.5	510	8	150
2240107120	2240107121	12 x 1.5 mm ²	15.5	10.8	20.0	610	10	160
2240108120	2240108121	12 x 2.5 mm ²	17.5	13.0	22.5	795	13	180
2240105140	2240105141	14 x 1.0 mm ²	15.0	10.2	19.5	555	7	155
2240107140	2240107141	14 x 1.5 mm ²	16.5	11.3	21.0	685	10	170
2240108140	2240108141	14 x 2.5 mm ²	18.5	13.1	23.5	875	12	190
2240105160	2240105161	16 x 1.0 mm ²	16.0	10.9	20.5	610	7	165
2240107160	2240107161	16 x 1.5 mm ²	17.0	11.9	22.0	745	9	175
2240108160	2240108161	16 x 2.5 mm ²	19.5	13.4	24.5	970	12	195
2240105190	2240105191	19 x 1.0 mm ²	17.0	11.4	21.5	685	7	170
2240107190	2240107191	19 x 1.5 mm ²	18.5	13.1	23.0	830	9	185
2240108190	2240108191	19 x 2.5 mm ²	20.5	14.1	25.5	1070	11	205
2240105240	2240105241	24 x 1.0 mm ²	19.5	13.3	24.5	860	6	195
2240107240	2240107241	24 x 1.5 mm ²	22.0	14.8	27.0	1065	8	215
2240108240	2240108241	24 x 2.5 mm ²	24.5	16.7	30.5	1410	10	245
2240105270	2240105271	27 x 1.0 mm ²	20.0	13.6	25.0	905	6	200
2240105100	2240105101	10 x 1.0 mm ²	14.0	10.2	18.0	485	8	145
2240105120	2240105121	12 x 1.0 mm ²	14.5	10.2	18.5	510	8	150
2240105140	2240105141	14 x 1.0 mm ²	15.0	10.2	19.5	555	7	155
2240105160	2240105161	16 x 1.0 mm ²	16.0	10.9	20.5	610	7	165
2240105190	2240105191	19 x 1.0 mm ²	17.0	11.4	21.5	685	7	170
2240105240	2240105241	24 x 1.0 mm ²	19.5	13.3	24.5	860	6	195
2240105270	2240105271	27 x 1.0 mm ²	20.0	13.6	25.0	905	6	200
2240105300	2240105301	30 x 1.0 mm ²	21.0	14.1	26.0	965	6	210
2240105370	2240105371	37 x 1.0 mm ²	23.0	16.1	28.0	1140	5	225
2240107070	2240107071	7 x 1.5 mm ²	11.5	10.1	16.0	430	12	130
2240107100	2240107101	10 x 1.5 mm ²	15.0	10.3	19.5	560	11	155
2240107120	2240107121	12 x 1.5 mm ²	15.5	10.8	20.0	610	10	160
2240107140	2240107141	14 x 1.5 mm ²	16.5	11.3	21.0	685	10	170
2240107160	2240107161	16 x 1.5 mm ²	17.0	11.9	22.0	745	9	175
2240107190	2240107191	19 x 1.5 mm ²	18.5	13.1	23.0	830	9	185
2240107240	2240107241	24 x 1.5 mm ²	22.0	14.8	27.0	1065	8	215
2240107270	2240107271	27 x 1.5 mm ²	22.0	16.1	27.5	1140	8	220
2240107300	2240107301	30 x 1.5 mm ²	23.0	16.2	28.0	1210	7	225
2240107370	2240107371	37 x 1.5 mm ²	25.0	17.0	30.5	1420	7	245
2240108070	2240108071	7 x 2.5 mm ²	13.5	10.2	17.5	520	16	140
2240108100	2240108101	10 x 2.5 mm ²	17.0	11.6	21.5	720	14	170
2240108120	2240108121	12 x 2.5 mm ²	17.5	13.0	22.5	795	13	180

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LKSM-DS-EMC 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)
2240108140	2240108141	14 x 2.5 mm ²	18.5	13.1	23.5	875	12	190
2240108160	2240108161	16 x 2.5 mm ²	19.5	13.4	24.5	970	12	195
2240108190	2240108191	19 x 2.5 mm ²	20.5	14.1	25.5	1070	11	205
2240108240	2240108241	24 x 2.5 mm ²	24.5	16.7	30.5	1410	10	245
2240108270	2240108271	27 x 2.5 mm ²	25.0	17.0	31.0	1505	10	250
2240108300	2240108301	30 x 2.5 mm ²	26.0	17.6	31.5	1615	10	250
2240108370	2240108371	37 x 2.5 mm ²	28.5	19.1	34.0	1885	9	270

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 → 4 x x x x x

Other sizes on request.