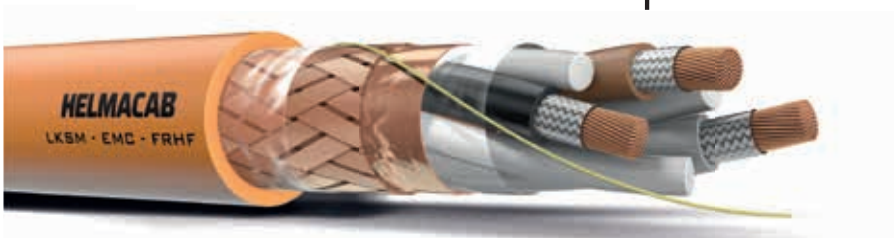
LKSM-EMC-FRHF

0.6/1 kV
Fire-resistant armoured power and control cable with improved EMC-screening



• FLAME-RETARDANT • HALOGEN-FREE • LOW SMOKE EMISSION • OIL RESISTANT (SHF2 only)

CONDUCTOR	Stranded copper conductor 1.0-10 mm², IEC 60228 Class 2 Stranded copper conductor 16-300 mm², IEC 60228 Class 5
INSULATION	Mica tape XLPE
CABLING/BEDDING	Cabling, cores twisted together, fillers or dummy cores included in select sizes based on product specifications to obtain symmetrical and round construction Bedding, lapped tape
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 mm²
SHEATH	Polyolefine SHF1, IEC 60092-360 Cross-linked polyolefine SHF2 on request Standard colour orange, SHF2 standard colour black, other colours on request
REFERENCE STANDARD	IEC 60092-353

APPLICATION

Fire-resistant 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 for 1...4 core cables, number code for 5...37 core cables
MARINE TYPE APPROVALS	ABS, BV, CCS, CRS, DNV, 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 acc. to 60092-360/SHF2
MIN. INSTALLATION TEMPERATURE	-15 °C
OPERATING TEMPERATURE	-40 – 80 °C fixed installation
MAX. CONDUCTOR TEMPERATURE	90 °C

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LKSM-EMC-FRHF 0.6/1 kV

Part number	G-type	No. of conductors x Conductor area (mm²)	Cross-section of armour mm²	Diameter of screen mm	Nominal outer Ø (mm)	Weight kg/km	Current rating A	Min. bending radiusmm (fixed)
-	-	1 x 1.0	3.0	4.5	6.5	90	18	40
-	-	1 x 1.5	3.0	4.5	7.0	100	23	40
-	-	1 x 2.5	3.1	5.0	7.5	110	30	45
-	-	1 x 4	3.1	5.5	8.0	130	40	45
-	-	1 x 6	3.1	6.0	8.5	155	52	50
-	-	1 x 10	3.5	7.0	10.0	215	72	60
-	-	1 x 16 cl5	4.1	8.5	11.0	285	94	65
-	-	1 x 25 cl5	4.8	10.5	13.0	410	123	80
-	-	1 x 35 cl5	5.5	11.5	14.0	515	153	85
-	-	1 x 50 cl5	8.6	13.5	17.0	705	196	100
-	-	1 x 70 cl5	10.0	15.5	18.5	935	240	110
-	-	1 x 95 cl5	11.5	18.0	21.5	1190	284	130
-	-	1 x 120 cl5	12.3	20.0	23.5	1465	331	140
-	-	1 x 150 cl5	14.7	22.5	26.5	1800	381	160
-	-	1 x 185 cl5	15.2	25.5	29.0	2165	429	175
-	-	1 x 240 cl5	16.9	28.5	32.5	2790	507	195
-	-	1 x 300 cl5	18.6	31.0	35.5	3420	582	210
-	-	2 x 1.0	3.7	7.5	10.0	140	15	60
27872	-	2 x 1.5	4.1	8.0	10.5	160	20	65
27873	-	2 x 2.5	4.5	9.0	11.5	190	26	70
27874	-	2 x 4	5.1	10.0	13.0	245	34	75
27875	-	2 x 6	5.6	11.0	14.0	365	44	85
27876	-	2 x 10	8.9	13.5	16.5	540	61	100
27877	-	2 x 16 cl5	11.4	15.5	19.0	730	80	115
27878	-	2 x 25 cl5	12.6	19.5	23.5	1070	105	140
27879	-	2 x 35 cl5	14.8	22.0	25.5	1350	130	155
27880	-	2 x 50 cl5	16.6	26.0	30.0	1815	167	180
27881	-	2 x 70 cl5	19.0	30.0	34.5	2420	204	205
-	-	2 x 95 cl5	21.5	35.0	39.5	3150	241	240
-	-	3 x 1.0	4.0	8.0	10.5	170	13	65
27882	28444	3 x 1.5	4.3	8.5	11.0	190	16	65
27883	28445	3 x 2.5	4.8	9.5	12.5	240	21	75
27884	28446	3 x 4	5.5	10.5	13.5	305	28	80
27885	28447	3 x 6	11.3	12.5	15.5	485	36	90
27886	28448	3 x 10	9.6	14.5	17.5	630	50	105
27887	28449	3 x 16 cl5	11.5	17.5	20.5	890	66	125
27888	28450	3 x 25 cl5	14.7	21.5	25.5	1315	86	155
27889	28451	3 x 35 cl5	15.8	24.0	28.0	1675	107	170
27890	28452	3 x 50 cl5	18.5	28.5	33.0	2280	137	200
27891	28453	3 x 70 cl5	22.2	32.5	37.5	3055	168	225
27892	28454	3 x 95 cl5	32.5	38.5	43.5	4055	199	260
27893	28455	3 x 120 cl5	36.1	42.5	48.0	4980	232	290
27894	28456	3 x 150 cl5	40.2	48.0	54.0	6200	267	325
-	-	4 x 1.0	4.4	9.0	11.5	195	13	70
27897	28459	4 x 1.5	4.8	9.5	12.5	230	16	75
27898	28460	4 x 2.5	5.4	10.5	13.5	280	21	80
27899	28461	4 x 4	11.3	12.0	15.0	420	28	90
27900	28462	4 x 6	9.2	13.5	16.5	540	36	100
27905	28463	4 x 10	10.7	16.0	19.5	760	50	115
27906	28464	4 x 16 cl5	12.8	19.0	23.0	1095	66	135
27907	28465	4 x 25 cl5	15.6	24.0	28.0	1595	86	165
27908	28466	4 x 35 cl5	18.3	26.5	31.0	2090	107	185

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

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LKSM-EMC-FRHF 0.6/1 kV

Part number	G-type	No. of conductors x Conductor area (mm²)	Cross-section of armour mm²	Diameter of screen mm	Nominal outer Ø (mm)	Weight kg/km	Current rating A	Min. bending radiusmm (fixed)
27909	28467	4 x 50 Fcl5	20.4	32.0	36.5	2825	137	220
27910	28468	4 x 70 cl5	23.3	36.5	41.5	3840	168	250
27912	28469	4 x 95 cl5	36.1	43.0	48.5	5055	199	290
27913	28470	4 x 120 cl5	40.2	47.5	53.5	6285	232	320
-	-	4 x 150 cl5	44.8	53.5	60.5	7820	267	360
-	-	5 x 1.0	4.9	9.5	12.5	235	10	75
27914	28471	5 x 1.5	5.3	10.5	13.0	270	13	80
27915	28472	5 x 2.5	6.0	11.5	14.5	335	17	85
27916	28473	5 x 4	11.3	13.5	16.5	490	23	100
27917	28474	5 x 6	11.4	15.0	18.0	660	30	110
27918	28475	5 x 10	11.9	18.0	21.5	940	42	130
27919	28476	5 x 16 cl5	14.1	21.0	25.0	1325	55	150
27920	28477	5 x 25 cl5	17.2	26.5	30.5	1940	71	185
-	-	7 x 1.0	5.4	10.5	13.5	270	9	80
-	-	10 x 1.0	9.6	14.0	17.0	400	8	105
-	-	12 x 1.0	10.0	14.5	18.0	445	8	105
-	-	14 x 1.0	10.5	15.5	18.5	495	7	110
-	-	16 x 1.0	11.1	16.5	19.5	540	7	115
-	-	19 x 1.0	11.8	17.0	20.5	630	7	125
-	-	24 x 1.0	13.9	20.5	24.0	815	6	145
-	-	27 x 1.0	14.4	21.0	24.5	870	6	150
-	-	30 x 1.0	14.9	21.5	25.5	935	6	155
-	-	37 x 1.0	16.2	23.5	27.5	1090	5	165
27921	28478	7 x 1.5	5.9	11.5	14.5	315	12	85
27923	28480	10 x 1.5	10.5	15.0	18.5	475	11	110
27925	28482	12 x 1.5	10.9	15.5	19.0	525	10	115
27927	28484	14 x 1.5	11.5	16.5	20.0	585	10	120
27929	28486	16 x 1.5	12.2	17.5	21.0	665	9	125
27931	28488	19 x 1.5	12.9	18.5	22.0	780	9	135
27933	28490	24 x 1.5	15.3	22.0	26.0	975	8	155
27935	28492	27 x 1.5	15.8	22.5	26.5	1055	8	160
-	-	30 x 1.5	16.4	23.5	27.5	1135	7	165
27937	28494	37 x 1.5	17.8	25.5	30.0	1345	7	180
27922	28479	7 x 2.5	9.9	13.0	16.0	445	16	95
27924	28481	10 x 2.5	11.7	17.0	20.0	605	14	120
27926	28483	12 x 2.5	12.1	17.5	21.0	700	13	125
27928	28485	14 x 2.5	12.8	18.5	22.0	780	12	135
27930	28487	16 x 2.5	13.6	19.5	23.5	860	12	140
27932	28489	19 x 2.5	14.4	21.0	24.5	1020	11	150
27934	28491	24 x 2.5	17.2	24.5	28.5	1280	10	170
27936	28493	27 x 2.5	17.6	25.5	29.5	1410	10	180
-	-	30 x 2.5	18.3	26.5	30.5	1525	10	185
27938	28495	37 x 2.5	20.0	28.5	33.0	1790	9	200

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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