

LKSM-EMC

0.6/1 kV

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 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, 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 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

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 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
HALOGEN-FREE	IEC 60754 series
SMOKE EMISSION	IEC 61034 series
OIL RESISTANCE (SHF2 only)	IEC 60811-404 conditions acc. 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
MAX. CONDUCTOR TEMPERATURE	90 °C

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Part number	G-type	No. of conductors x Conductor area (mm ²)	Cross-section of armour mm ²	Diameter of screen mm	Nominal outer Ø (mm)	Weight kg/km	Current rating A	Min. bending radius mm (fixed)
27517	-	1 x 10	3.3	7.0	9.5	200	72	55
27518	-	1 x 16 cl5	4.2	8.5	11.0	285	94	65
27519	-	1 x 25 cl5	5.3	10.5	13.5	410	123	80
27520	-	1 x 35 cl5	5.6	11.5	14.0	510	153	85
27521	-	1 x 50 cl5	8.8	13.5	16.5	695	196	100
27522	-	1 x 70 cl5	10.1	15.5	18.5	930	240	110
27523	-	1 x 95 cl5	11.3	17.0	20.5	1160	284	120
27524	-	1 x 120 cl5	12.5	19.0	22.5	1440	331	135
27525	-	1 x 150 cl5	13.9	21.5	25.5	1775	381	150
27526	-	1 x 185 cl5	15.3	23.5	27.5	2120	429	165
27527	-	1 x 240 cl5	17.2	26.5	30.5	2735	507	185
27528	-	1 x 300 cl5	18.9	29.5	34.0	3385	582	205
26905	-	2 x 1.0	3.3	6.5	9.5	130	15	55
27480	-	2 x 1.5	3.6	7.0	10.0	145	20	60
27481	-	2 x 2.5	4.2	8.0	11.0	175	26	65
27482	-	2 x 4	4.6	9.0	12.0	225	34	70
27483	-	2 x 6	5.3	10.5	13.0	340	44	80
27484	-	2 x 10	8.5	12.5	16.0	535	61	95
27485	-	2 x 16 cl5	10.3	15.5	19.0	775	80	115
27486	-	2 x 25 cl5	12.6	19.5	23.5	1125	105	140
27487	-	2 x 35 cl5	14.3	21.0	25.0	1410	130	150
27529	-	2 x 50 cl5	16.6	25.0	29.0	1880	167	175
27530	-	2 x 70 cl5	19.0	29.0	33.5	2530	204	200
27531	-	2 x 95 cl5	21.5	32.0	37.0	3255	241	220
26906	26988	3 x 1.0	3.6	7.0	10.0	155	13	60
26861	26862	3 x 1.5	3.9	7.5	10.5	175	16	60
26863	26864	3 x 2.5	4.3	8.5	11.5	215	21	70
26865	26866	3 x 4	5.3	10.0	12.5	285	28	75
26867	26868	3 x 6	5.6	11.0	14.0	395	36	85
26869	26870	3 x 10	8.9	13.5	16.5	600	50	100
26872	26851	3 x 16 cl5	11.0	17.0	20.0	890	66	120
26874	26852	3 x 25 cl5	13.5	21.0	24.5	1320	86	150
26876	26853	3 x 35 cl5	15.3	23.0	26.5	1650	107	160
26878	26854	3 x 50 cl5	17.8	26.5	31.0	2270	137	185
26880	26855	3 x 70 cl5	20.4	31.0	35.5	3075	168	215
26882	26856	3 x 95 cl5	23.1	34.5	39.5	3910	199	235
26884	26857	3 x 120 cl5	35.5	39.0	44.5	5005	232	265
26886	26858	3 x 150 cl5	39.5	44.5	50.5	6275	267	305
26888	26859	3 x 185 cl5	43.9	49.0	55.5	7585	300	335
26907	26989	4 x 1.0	3.9	8.0	10.5	175	13	65
26942	26943	4 x 1.5	4.3	8.5	11.0	200	16	65
26944	26945	4 x 2.5	4.8	9.5	12.5	260	21	75
26946	26947	4 x 4	5.5	11.0	13.5	340	28	80
26948	26949	4 x 6	8.5	12.5	15.5	505	36	95
26950	26951	4 x 10	10.0	15.0	18.5	755	50	110
26952	26953	4 x 16 cl5	12.3	18.5	22.0	1045	66	135
26954	26955	4 x 25 cl5	15.0	23.5	27.0	1525	86	165
26956	26957	4 x 35 cl5	17.0	25.5	29.5	1960	107	175

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

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Part number	G-type	No. of conductors x Conductor area (mm ²)	Cross-section of armour mm ²	Diameter of screen mm	Nominal outer Ø (mm)	Weight kg/km	Current rating A	Min. bending radius mm (fixed)
26958	26959	4 x 50 cl5	19.8	29.5	34.5	2695	137	205
26960	26961	4 x 70 cl5	22.8	34.5	39.5	3655	168	235
26962	26963	4 x 95 cl5	35.5	38.5	44.0	4795	199	265
26964	26965	4 x 120 cl5	39.5	43.5	49.5	6000	232	295
26966	26967	4 x 150 cl5	44.1	49.5	56.0	7480	267	335
26908	26990	5 x 1.0	4.3	8.5	11.0	200	10	65
27488	27838	5 x 1.5	5.2	9.5	12.0	245	13	75
27489	27839	5 x 2.5	5.3	10.5	13.5	305	17	80
27490	27940	5 x 4	8.5	12.5	15.5	435	23	90
27491	27941	5 x 6	9.4	14.0	17.0	600	30	100
27492	27942	5 x 10	11.0	16.5	20.0	910	42	120
27493	27943	5 x 16 cl5	13.5	20.5	24.0	1260	55	145
27494	27944	5 x 25 cl5	16.6	26	30.0	1860	71	180
26909	26991	7 x 1.0	4.7	9.5	12.5	245	9	75
26910	26992	10 x 1.0	8.5	12.5	15.5	360	8	95
26911	26993	12 x 1.0	8.6	13.0	16.0	385	8	95
26912	26994	14 x 1.0	9.1	13.5	16.5	420	7	100
26913	26995	16 x 1.0	9.7	14.5	17.5	460	7	105
26914	26996	19 x 1.0	10.2	15.0	18.5	520	7	110
26915	26997	24 x 1.0	12.2	18.0	21.5	700	6	130
26916	26998	27 x 1.0	12.5	18.5	22.0	745	6	130
26917	26999	37 x 1.0	14.0	20.5	24.5	935	5	145
27495	27840	7 x 1.5	5.3	10.0	13.0	290	12	80
27497	27842	10 x 1.5	9.2	13.5	16.5	425	11	100
27499	27844	12 x 1.5	9.6	14.0	17.0	465	10	100
27501	27846	14 x 1.5	10.2	15.0	18.0	520	10	110
27503	27848	16 x 1.5	10.8	15.5	19.0	575	9	115
27505	27850	19 x 1.5	11.5	16.5	20.0	645	9	120
27507	27852	24 x 1.5	13.5	19.5	23.0	855	8	140
27509	27854	27 x 1.5	13.9	20.0	24.0	930	8	145
27511	27856	37 x 1.5	15.7	22.5	26.5	1175	7	160
27496	27841	7 x 2.5	5.9	11.5	14.5	370	16	85
27498	27843	10 x 2.5	10.5	15.5	18.5	550	14	110
27500	27845	12 x 2.5	10.9	16.0	19.0	615	13	115
27502	27847	14 x 2.5	11.5	17.0	20.0	690	12	120
27504	27849	16 x 2.5	12.2	18.0	21.5	785	12	130
27506	27851	19 x 2.5	12.9	19.0	22.5	910	11	135
27508	27853	24 x 2.5	15.4	22.5	26.0	1145	10	155
27510	27855	27 x 2.5	15.8	23.0	27.0	1250	10	160
27512	27857	37 x 2.5	17.8	25.5	30.0	1610	9	180

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.