

# LKSM-EMC-ALU

Armoured power and control cable  
with improved EMC screening 0.6/1 kV



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

<b>CONDUCTOR</b>	Stranded aluminium conductor 35-185 mm <sup>2</sup>	IEC 60228, class 2 fine stranded
<b>INSULATION</b>	XLPE	IEC 60092-360
<b>CABLING/BEDDING</b>	Cabling with optional fillers or dummy cores to obtain symmetrical and round construction	
<b>SCREEN</b>	Copper tape, coverage 100%	
<b>ARMOUR</b>	Copper wire braid, coverage > 90% Tinned copper wire braid on request	IEC 60092-350
<b>SHEATH</b>	Polyolefine plastic, SHF1 On request, thermosetting polyolefine, SHF2 Standard colour black, other colours on request	IEC 60092-360
<b>REFERENCE STANDARDS</b>	IEC 60092-353, design	

## APPLICATION

For fixed installation in most areas and on open deck in ships and offshore units. Specially designed cables, with screen which has improved screening properties to address EMI/EMC problems.

## MAIN CHARACTERISTICS:

<b>FIRE PERFORMANCE</b>	IEC 60332-1-2 IEC 60332-3-22
<b>RATED VOLTAGE</b>	AC 0.6/1 kV (1.2 kV) DC 0.9/1.5 kV (if voltage to earth does not exceed 0.9 kV)
<b>HALOGEN-FREE</b>	IEC 60754 series
<b>SMOKE EMISSION</b>	IEC 61034 series
<b>OIL RESISTANCE (ONLY SHF2)</b>	IEC 60811-404 conditions according to 60092-360/SHF2
<b>TRANSFER IMPEDANCE</b>	IEC 61196-1 (typical value 26 dB over 1 mΩ/m at 100 MHz [20 mΩ/m])
<b>MIN. INSTALLATION TEMPERATURE</b>	-15 °C
<b>OPERATING TEMPERATURE</b>	-40 - 80 °C
<b>MAX. CONDUCTOR TEMPERATURE</b>	90 °C

Subject to change without prior notice. See latest update on our webpage.

© 2023 Helkama Bica Oy. All rights reserved.

## LKSM-EMC-ALU 0.6/1 kV

Part number		Number of conductors & cross-section n x mm <sup>2</sup>	Cross-section of armour mm <sup>2</sup>	Nominal outer Ø mm	Weight kg/km	Current rating A	Min. bending radius fixed installation mm
Normal	G-type						
2840214010	---	1 x 35 mm <sup>2</sup>	4.6	14.5	320	119	115
2840215010	---	1 x 50 mm <sup>2</sup>	10.1	17.0	450	149	135
2840216010	---	1 x 70 mm <sup>2</sup>	10.2	19.5	555	184	155
2840217010	---	1 x 95 mm <sup>2</sup>	10.6	21.0	660	223	170
2840218010	---	1 x 120 mm <sup>2</sup>	13.0	23.5	805	258	190
2840219010	---	1 x 150 mm <sup>2</sup>	13.1	26.5	975	296	210
2840220010	---	1 x 185 mm <sup>2</sup>	16.0	29.5	1165	337	235
2840214020	---	2 x 35 mm <sup>2</sup>	13.5	26.0	1055	102	210
2840215020	---	2 x 50 mm <sup>2</sup>	16.2	30.0	1390	127	240
2840216020	---	2 x 70 mm <sup>2</sup>	18.0	35.0	1830	157	280
2840217020	---	2 x 95 mm <sup>2</sup>	20.3	38.5	2305	189	310
2840218020	---	2 x 120 mm <sup>2</sup>	35.7	43.5	2950	219	350
2840219020	---	2 x 150 mm <sup>2</sup>	37.0	49.0	3705	252	395
2840220020	---	2 x 185 mm <sup>2</sup>	40.0	55.5	4530	287	445
2840214030	2840214031	3 x 35 mm <sup>2</sup>	16.0	27.5	1115	83	220
2840215030	2840215031	3 x 50 mm <sup>2</sup>	16.8	32.5	1500	104	260
2840216030	2840216031	3 x 70 mm <sup>2</sup>	19.3	37.5	1970	128	300
2840217030	2840217031	3 x 95 mm <sup>2</sup>	21.8	41.0	2435	156	330
2840218030	2840218031	3 x 120 mm <sup>2</sup>	36.6	46.5	3125	180	375
2840219030	2840219031	3 x 150 mm <sup>2</sup>	38.8	53.0	3920	207	425
2840220030	2840220031	3 x 185 mm <sup>2</sup>	42.9	59.5	4775	236	475
2840214040	2840214041	4 x 35 mm <sup>2</sup>	16.2	30.5	1220	83	245
2840215040	2840215041	4 x 50 mm <sup>2</sup>	18.7	35.5	1650	104	285
2840216040	2840216041	4 x 70 mm <sup>2</sup>	21.5	41.5	2145	128	335
2840217040	2840217041	4 x 95 mm <sup>2</sup>	36.6	46.5	2820	156	370
2840218040	2840218041	4 x 120 mm <sup>2</sup>	38.8	52.0	3420	180	415
2840219040	2840219041	4 x 150 mm <sup>2</sup>	43.3	59.0	4285	207	470
2840220040	2840220041	4 x 185 mm <sup>2</sup>	47.8	66.5	5240	236	530
2840214050	2840214051	5 x 35 mm <sup>2</sup>	17.8	33.5	1480	69	270
2840215050	2840215051	5 x 50 mm <sup>2</sup>	20.7	39.0	1980	86	315
2840216050	2840216051	5 x 70 mm <sup>2</sup>	36.4	46.5	2750	107	375
2840217050	2840217051	5 x 95 mm <sup>2</sup>	38.6	51.0	3435	129	410
2840218050	2840218051	5 x 120 mm <sup>2</sup>	43.0	57.5	4190	150	460
2840219050	2840219051	5 x 150 mm <sup>2</sup>	48.2	65.5	5335	172	525