

LKSM-VFD-ALU

Armoured power and control cable
with improved EMC screening 1.8/3 kV



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

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

APPLICATION

For fixed installation in most areas and on open deck in ships and offshore units. Design to meet requirements for Variable Frequency Drivers (VFD). Suitable for voltage peaks up to 3 kV.

MAIN CHARACTERISTICS:

FIRE PERFORMANCE	IEC 60332-1-2 IEC 60332-3-22
RATED VOLTAGE	1.8/3 kV (3.6 kV)
HALOGEN-FREE	IEC 60754 series
SMOKE EMISSION	IEC 61034 series
OIL RESISTANCE (ONLY SHF2)	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
MAX. CONDUCTOR TEMPERATURE	90 °C

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Part number	Number of conductors & cross-section n x mm ²	Cross-section of armour mm ²	Nominal outer Ø mm	Weight kg/km	Current rating A	Min. bending radius fixed installation mm
Normal ---						
2850214010 ---	1 x 35 mm ²	8.7	17.5	430	119	140
2850215010 ---	1 x 50 mm ²	9.6	19.5	515	149	155
2850216010 ---	1 x 70mm ²	10.6	21.5	610	184	170
2850217010 ---	1 x 95mm ²	11.9	23.0	745	223	185
2850218010 ---	1 x 120mm ²	12.8	25.0	840	258	200
2850219010 ---	1 x 150mm ²	14.0	27.5	1010	296	220
2850220010 ---	1 x 185mm ²	14.8	29.5	1150	337	235
2850214030 ---	3 x 35mm ²	17.7	33.0	1450	83	265
2850215030 ---	3 x 50mm ²	19.8	37.5	1840	104	300
2850216030 ---	3 x 70mm ²	21.8	42.5	2325	128	340
2850217030 ---	3 x 95mm ²	35.1	45.5	2930	156	365
2850218030 ---	3 x 120mm ²	37.8	50.0	3460	180	400
2850219030 ---	3 x 150mm ²	41.0	55.0	4120	207	440
2850220030 ---	3 x 185mm ²	44.4	60.0	4835	236	480
2850220035 ---	3 x 185+3 x 35 mm ²	44.4	60.0	4570	236	480