AXMK/PE LC Low Carbon

Aluminium power cable

0,6/1 (1,2) kV

Application

Aluminium power cable for fixed installations outdoors. May be buried directly in soil, also by ploughing. UV-protected oversheath and core insulation. Installations must be in accordance with national regulations and rules of installations. The cable is halogen-free, but without fire protection. The cable is not CPR-classified. Made of low-carbon aluminum and up to 45% of the sheath material is recycled plastic.

Design

Standards	SFS 5800, HD 603 5 E
Product Environmental Profile (PEP/EPD)	PEP NXNS-00650-V01.02-EN
Conductor	25 mm² circular stranded aluminium, EN/IEC 60228 class 2 35-300 mm² sector shaped, stranded aluminium, EN/IEC 60228 class 2
Insulation	UV-protected cross-linked polyethylene XLPE
Core Identification	Yellow-green, brown, black, grey
Inner covering	Plastic tape
Oversheath	UV-protected polyethylene compound PE , Black
Rip cord	Aramid cord

Temperature limits

Max. conductor temperature °C	90
Max. cond. temp. short circuit max. 5 s °C	250
Min. cable temperature during operation °C	-50
Min. cable temperature during handling °C	-20
Min. cable temperature during transport °C	-40

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Technical information	4x25 S Low Carbon	4x35 S Low Carbon	4x50 S Low Carbon	4x70 S Low Carbon	4x95 S Low Carbon	4x120 S Low Carbon	4x150 S Low Carbon	4x185 S Low Carbon	4x240 S Low Carbon	4x300 S Low Carbon
Product code	**1116150**	**1116151**	**1116152**	**1116153**	**1116154**	**1116155**	**1116156**	**1116157**	**1116158**	**1116159**
Nominal cable diameter mm	22	22	26	29	33	38	42	46	53	56
Nominal cable weight kg/km	460	578	772	1064	1365	1754	2176	2645	3528	4150
Nominal weight of Aluminium kg/km	266	365	500	725	961	1265	1574	1909	2603	3096
Nominal Insulation thicness mm	0,9	0,9	1,0	1,1	1,1	1,2	1,4	1,6	1,7	1,8
Nominal thickness of oversheath mm	1,8	1,8	1,9	2,0	2,1	2,3	2,4	2,6	2,8	3,0
Maximum forces during installation when pulling by										
Max. pulling force by pulling-eye kN	1,5	2,1	3,0	4,2	5,7	7,2	9,0	11,1	14,4	18,0
Max. pulling force by pulling-stocking kN	1,5	2,1	3,0	4,2	5,7	7,2	8,5	8,5	8,5	8,5
Minimum bending radii										
Minimum bending radius, handling mm	267	266	312	350	400	450	499	547	633	678
Minimum bending radius, final bending mm	187	186	218	245	280	315	349	383	443	474
Minimum bending radii										
During handling and installation, phase conductor cm	13	16	19	23	26	29	32	37	43	46
During handling and installation, cable cm	27	27	31	35	40	45	50	55	63	68
In final installation, phase conductor cm	8	11	13	16	18	20	23	26	30	32
In final installation, cable cm	19	19	22	25	28	32	35	38	44	47
Minimum bending radii										
During handling and installation, cable m	0,27	0,27	0,31	0,35	0,40	0,45	0,50	0,55	0,63	0,68
In final installation, cable m	0,19	0,19	0,22	0,24	0,28	0,32	0,35	0,38	0,44	0,47
DC resistance										
Max. DC resistance of conductor at 20 °C Ω/km	1,20	0,868	0,641	0,443	0,320	0,253	0,206	0,164	0,125	0,100

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Current ratings										
Cables in air (25 °C)										
two loaded conductor, conductor 70 °C A	93	115	140	180	218	254	293	335	395	457
three loaded conductor, conductor 70 °C A	81	100	122	156	190	220	255	291	343	396
two loaded conductor, conductor 90 °C A	112	140	171	219	267	312	360	413	489	565
three loaded conductor, conductor 90 °C A	101	125	152	194	236	274	316	361	425	490
Cables in air (30 °C)										
two loaded conductor, conductor 70 °C A	89	111	135	173	210	244	282	322	380	439
three loaded conductor, conductor 70 °C A	78	96	117	150	183	212	245	280	330	381
two loaded conductor, conductor 90 °C A	108	135	164	211	257	300	346	397	470	543
three loaded conductor, conductor 90 °C A	97	120	146	187	227	263	304	347	409	471
Cables in the ground (15 °C and 1,0 K.m/W), Installation depth 0,7 m										
Cables in the ground, conductor 65 °C A	100	125	150	185	220	255	280	330	375	430
Cables in the ground (20 °C and 2,5 K.m/W), Installation depth 0,7 m										
Cables in the ground, conductor 90 °C A	82	98	117	144	172	197	220	250	290	326
Maximum thermal short circuit current during 1 s										
Phase (initial 65 °C, final 250 °C) kA	2,6	3,6	5,2	7,3	9,8	12,4	15,5	19,2	24,9	31,1
Phase (initial 90 °C, final 250 °C) kA	2,4	3,4	4,8	6,7	9,0	11,4	14,2	17,5	22,6	28,2
Environmental information										
(A1-A3) GWP emission kgCO2e/km	1879	2440	3364	4755	6193	8039	9955	12173	16220	19673
GWP emissions calculation standard	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019

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Product code	1116150	1116151	1116152	1116153	1116154	1116155	1116156	1116157	1116158	1116159
GTIN code	6438176310052	6438176310069	6438176310076	6438176310083	6438176310090	6438176310106	6438176310113	6438176310120	6438176310137	6438176310144

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