AXCMK-HF D / AXQJ D / IFSI-Al D Helppo

Aluminium power cable HF

0,6/1 (1,2) kV

Application

Aluminium power cable for fixed installations indoors and outdoors. May be buried directly in soil. The conductor insulation must be protected against UV-radiation. Installations must be in accordance with national regulations and rules of installations. The cable is halogen-free and flame-retardant according to CPR-class Dca-s2,d2,a2.

Design

Standards	SFS 5546, SEK TS 424 14 18-1, HD 604 5 I & D, IEC 60502-1
Reaction to fire	Dca-s2,d2,a2; EN 13501-6, EN 50575:2014+A1:2016
Product Environmental Profile (PEP/EPD)	PEP NXNS-00560-V01.01-EN
Conductor	35-300 mm² sector shaped, stranded aluminium, EN/IEC 60228 class 2
Insulation	Cross-linked polyethylene XLPE
Core Identification	Brown, black, grey Blue, brown, black, grey
Inner covering	Plastic tape
Metal screen	Copper wires and copper tape
Oversheath	UV-protected polyolefin compound , 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	-15
Min. cable temperature during transport °C	-25

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Technical information	4x35/16	4x50/16	4x70/21	4x95/29	4x120/41	4x150/41	4x185/57	4x240/72	4x300/88
Product code	**1149336**	**1149337**	**1149338**	**1149339**	**1149340**	**1149341**	**1149342**	**1149343**	**1149344**
Nominal cable diameter mm	24	28	31	36	40	44	49	56	60
Nominal cable weight kg/km	780	985	1346	1729	2232	2684	3324	4376	5182
Nominal weight of copper kg/km	149	149	197	259	370	370	516	651	809
Nominal weight of Aluminium kg/km	364	500	725	961	1265	1574	1909	2603	3096
Nominal Insulation thicness mm	0,9	1,0	1,1	1,1	1,2	1,4	1,6	1,7	1,8
Nominal size of metal screen mm²	16	16	21	29	41	41	57	72	88
Nominal thickness of oversheath mm	1,8	1,9	2,1	2,2	2,3	2,5	2,7	2,9	3,1
Fire load									
Fire load MJ/m	6,895	8,846	11,333	13,114	15,967	20,255	24,952	30,813	35,637
Fire load kWh/m	1,915	2,457	3,148	3,643	4,435	5,626	6,931	8,559	9,899
Maximum forces during installation when pulling by									
Max. pulling force by pulling-eye kN	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	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	291	337	378	434	482	533	586	672	717
Minimum bending radius, final bending mm	204	236	264	304	337	373	411	470	502
Minimum bending radii									
During handling and installation, phase conductor cm	16	19	23	26	29	32	37	43	46
During handling and installation, cable cm	29	34	38	43	48	53	59	67	72
In final installation, phase conductor cm	11	13	16	18	20	23	26	30	32
In final installation, cable cm	20	24	26	30	34	37	41	47	50
Minimum bending radii									
During handling and installation, cable m	0,29	0,34	0,38	0,43	0,48	0,53	0,59	0,67	0,72
In final installation, cable m	0,20	0,24	0,26	0,30	0,34	0,37	0,41	0,47	0,50
DC resistance									
Max. DC resistance of conductor at 20 °C Ω/km	0,868	0,641	0,443	0,320	0,253	0,206	0,164	0,125	0,100
Maximum DC resistance at 20 °C, metal screen Ω/km	1,15	1,15	0,868	0,641	0,443	0,443	0,320	0,253	0,206

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Technical information	4x35/16	4x50/16	4x70/21	4x95/29	4x120/41	4x150/41	4x185/57	4x240/72	4x300/88
Current ratings									
Cables in air (25 °C)									
two loaded conductor, conductor 70 °C A	115	140	180	218	254	293	335	395	457
three loaded conductor, conductor 70 °C A	100	122	156	190	220	255	291	343	396
two loaded conductor, conductor 90 °C A	140	171	219	267	312	360	413	489	565
three loaded conductor, conductor 90 °C A	125	152	194	236	274	316	361	425	490
Cables in air (30 °C)									
two loaded conductor, conductor 70 °C A	111	135	173	210	244	282	322	380	439
three loaded conductor, conductor 70 °C A	96	117	150	183	212	245	280	330	381
two loaded conductor, conductor 90 °C A	135	164	211	257	300	346	397	470	543
three loaded conductor, conductor 90 °C A	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	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	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	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	3,4	4,8	6,7	9,0	11,4	14,2	17,5	22,6	28,2
Metal screen (initial 80 °C, final 250 °C) kA	2,4	2,4	3,1	4,3	6,1	6,1	8,5	10,7	13,0
Environmental information									
The product is a declared item in the Supply Chain Declaration Portal (or short ”SCDP”) for New Buildings generation 4		Yes	Yes	Yes	Yes	Yes	Yes	Yes	
(A1-A3) GWP emission kgCO2e/km	5583	7270	10235	13593	17499	21046	26271	34616	42069
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

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STANDARD PACKAGES	4x35/16	4x50/16	4x70/21	4x95/29	4x120/41	4x150/41	4x185/57	4x240/72	4x300/88
Product code	1149336	1149337	1149338	1149339	1149340	1149341	1149342	1149343	1149344
GTIN code	6438176310335	6438176310359	6438176310373	6438176310397	6438176310410	6438176310434	6438176310458	6438176310472	6438176310496
Package	500 K12	500 K12	500 K14	500 K16	500 K18	500 K20	500 K22	500 K24	500 K26

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