AXQJ-F D / AHXCMK-HF D 12/20 (24) kV 3-core BK

Medium voltage cable

12/20 (24) kV



Application

Medium-voltage cable for fixed installations indoors and outdoors. May be buried directly in soil. 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	HD 620 10 M & F, SS 424 14 16, SFS 5636
Reaction to fire	Dca-s2,d2,a2; EN 13501-6, EN 50575:2014+A1:2016
Conductor	Watertight, circular, stranded aluminium, EN/IEC 60228 class 2
Conductor screen	Semiconducting cross-linked polyethylene XLPE
Insulation	Cross-linked polyethylene XLPE
Insulation screen	Semiconducting cross-linked polyethylene XLPE
Inner covering	Semiconducting tape
Inner covering	Semiconducting tape
Metal screen	Layer of helically wound copper wires with a counter helix copper tape
Oversheath	UV-protected halogen-free polyolefin compound , Black

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	3x50/16 BK	3x95/25 BK	3x150/25 BK	3x185/35 BK	3x240/35 BK	3x300/35 BK
Product code	**1181848**	**1181851**	**1181853**	**1181856**	**1181859**	**1182074**
Nominal cable diameter mm	51	58	64	69	74	78
Nominal cable weight kg/km	2028	2734	3457	4039	4786	5514
Nominal weight of copper kg/km	143	213	211	277	277	276
Nominal weight of Aluminium kg/km	383	733	1145	1456	1897	2423
Nominal diameter of conductor mm	8,0	11,1	13,9	15,6	17,8	19,7
Nominal thickness of conductor screen mm	0,5	0,5	0,5	0,5	0,5	0,5
Nominal Insulation thicness mm	5,5	5,5	5,5	5,5	5,5	5,5
Nominal diameter over the insulation without insulation screen mm	19,2	22,3	25,1	26,8	29,2	30,9
Nominal thickness of insulation screen mm	0,5	0,5	0,5	0,5	0,5	0,5
Nominal size of metal screen mm²	16	25	25	35	35	35
Nominal thickness of oversheath mm	3,0	3,0	3,2	3,3	3,5	3,6
Fire load						
Fire load MJ/m	47,635	57,588	67,619	74,115	83,446	90,009
Fire load kWh/m	13,232	15,997	18,783	20,588	23,180	25,002
Maximum forces during installation when pulling by						
Max. pulling force by pulling-eye kN	4,5	8,6	13,5	16,7	20,0	20,0
Max. pulling force by pulling-stocking kN	2,3	4,3	6,8	8,3	8,5	8,5
Minimum bending radii						
Minimum bending radius, handling mm	618	701	774	825	894	935
Minimum bending radius, final bending mm	433	491	542	578	626	655
Minimum bending radii						
During handling and installation, phase conductor cm	30	35	39	42	45	48
During handling and installation, cable cm	62	70	77	83	89	94
In final installation, phase conductor cm	21	24	27	29	32	34
In final installation, cable cm	43	49	54	58	63	65
Minimum bending radii						
During handling and installation, cable m	0,62	0,70	0,77	0,82	0,89	0,94
In final installation, cable m	0,43	0,49	0,54	0,58	0,63	0,66
DC resistance						
Max. DC resistance of conductor at 20 °C Ω/km	0,641	0,32	0,206	0,164	0,125	0,100
Maximum DC resistance at 20 °C, metal screen Ω/km	1,2	0,8	0,8	0,6	0,6	0,6

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Technical information	3x50/16 BK	3x95/25 BK	3x150/25 BK	3x185/35 BK	3x240/35 BK	3x300/35 BK
AC resistance of phase conductor, screen circuit closed						
Conductor temperature 40 °C Ω/km	0,6927	0,3460	0,2229	0,1776	0,1356	0,1088
Conductor temperature 65 °C Ω/km	0,7573	0,3782	0,2436	0,1941	0,1482	0,1188
Conductor temperature 70 °C Ω/km	0,7702	0,3846	0,2478	0,1974	0,1507	0,1208
Conductor temperature 90 °C Ω/km	0,8219	0,4104	0,2644	0,2106	0,1607	0,1288
Inductance per phase						
In trefoil formation, cables touching each other mH/km	0,37	0,33	0,31	0,30	0,29	0,28
Electrical values						
Calculated operation capacitance µF/km	0,16	0,20	0,24	0,26	0,29	0,31
Calculated charging current with main voltage A/km	0,6	0,7	0,9	0,9	1,1	1,1
Calculated earth fault current with main voltage A/km	1,8	2,2	2,6	2,8	3,2	3,4
Current ratings						
Cables in air (25 °C)						
Trefoil, conductor 90 °C, closed screen A	160	230	305	340	400	460
Cables in the ground (15 °C and 1,0 K.m/W), Installation depth 0,7 m						
Trefoil, conductor 65 °C, closed screen A	145	205	260	290	340	380
Trefoil, conductor 90 °C, closed screen A	170	240	310	345	400	450
Maximum thermal short circuit current during 1 s						
Phase (initial 90 °C, final 250 °C) kA	4,7	8,9	14,1	17,4	22,6	28,3
Metal screen (initial 80 °C, final 250 °C) kA	2,3	3,4	3,4	4,7	4,7	4,7

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STANDARD PACKAGES	3x50/16 BK	3x95/25 BK	3x150/25 BK	3x185/35 BK	3x240/35 BK	3x300/35 BK
Product code	1181848	1181851	1181853	1181856	1181859	1182074
GTIN code	6438176229422	6438176229453	6438176229484	6438176229958	6438176229514	6438176230053
Package	1000 K26	1000 K28	1000 K28	500 K26	1000 K30	500 K30
Product code	1181848	1181851	1181853	1181856	1181859	1182074
GTIN code	6438176229415	6438176229446	6438176229477	6438176229965	6438176229507	6438176230046
Package	500 K22	500 K24	500 K24	500 K30	500 K26	500 K26

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