

# AXMK-PLUS 1 kV

Halogen-free 1 kV power cable with aluminium conductors



**Afumex®**

APPLICATION	For fixed installation indoors, outdoors and underground. The construction of cable has been rated to ploughing installation method.
RATED VOLTAGE	U <sub>0</sub> /U = 0,6/1 kV, U <sub>m</sub> = 1,2 kV
Declaration of Performance (DoP)	Ref. no 1000872 and 1000871



SFS 5800	1 kV PEX insulated PD power cable
IEC 60502-1	1 kV & 3 kV power cables with extruded insulation.
EN 50575:2014+A1:2016	hEN CPR cables
EN 13501-6, class Eca	CPR fire class, Eca
IEC 60332-1-2	Vertical flame propagation for a single insulated wire or cable
IEC 60754	Corrosive gases

Conductor	Aluminium
Conductor surface	Bare
Insulation	XLPE
Core identification (acc. HD 308 S2)	Yes
Outer sheath	Halogenfree polymer
Max. conductor temperature [°C]	90
Max. conductor temperature at short circuit [°C]	250
Permitted cable outer temperature during assembling/handling (min) [°C]	-20
Minimum permissible bending radius during laying	12x OD

© Prysmian Finland Oy. All rights reserved.

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian; any modification or alteration afterwards of product may give different result.

The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian. The information is believed to be correct at the time of issue. Prysmian reserves the right to amend this specification without notice.

This specification is not contractually valid unless specifically authorised by Prysmian.

## FIRE PROPERTIES

Reaction-to-fire, CPR classification  
Flame retardant  
Halogen free

Eca  
In accordance with EN 13501-6  
Yes

## DELIVERY INFO

Snro	PRODUCT NAME	EAN-code (GTIN)	Packaging type	Standard delivery length
0601829	AXMK-PLUS 4G16 RM 1kV K500 Eca	6410006018291	Drum	500
0601830	AXMK-PLUS 4G25 RM 1kV K500 Eca	6410006018307	Drum	500
0601831	AXMK-PLUS 4G35 AN 1kV K500 Eca	6410006018314	Drum	500
0601832	AXMK-PLUS 4G50 AN 1kV K500 Eca	6410006018321	Drum	500
0601833	AXMK-PLUS 4G70 AN 1kV K500 Eca	6410006018338	Drum	500
0601834	AXMK-PLUS 4G95 AN 1kV K500 Eca	6410006018345	Drum	500
0601835	AXMK-PLUS 4G120 AN 1kV K500 Eca	6410006018352	Drum	500
0601836	AXMK-PLUS 4G150 AN 1kV K500 Eca	6410006018369	Drum	500
0601837	AXMK-PLUS 4G185 AN 1kV K500 Eca	6410006018376	Drum	500
0601838	AXMK-PLUS 4G240 AN 1kV K500 Eca	6410006018383	Drum	500
0601839	AXMK-PLUS 4G300 AN 1kV K500 Eca	6410006018390	Drum	500

## MECHANICAL DATA

Product description (short)	Diameter over cable [mm]	Pulling force pulling head [N]	Pulling force with pulling hose [N]	Weight [kg/km]	Min. permissible bending radius during laying [mm]
AXMK-PLUS 4G16	20	1,900	900	360	240
AXMK-PLUS 4G25	24	3,000	1,500	520	290
AXMK-PLUS 4G35	24	4,200	2,100	640	290
AXMK-PLUS 4G50	28	6,000	3,000	840	330
AXMK-PLUS 4G70	31	8,400	4,200	1,150	390
AXMK-PLUS 4G95	35	11,400	5,700	1,500	420
AXMK-PLUS 4G120	39	14,400	7,200	1,890	480
AXMK-PLUS 4G150	43	18,000	8,500	2,310	530
AXMK-PLUS 4G185	49	20,000	8,500	2,870	590
AXMK-PLUS 4G240	54	20,000	8,500	3,700	660
AXMK-PLUS 4G300	60	20,000	8,500	4,580	730

© Prysmian Finland Oy. All rights reserved.

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian; any modification or alteration afterwards of product may give different result.

The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian. The information is believed to be correct at the time of issue. Prysmian reserves the right to amend this specification without notice.

This specification is not contractually valid unless specifically authorised by Prysmian.

## ELECTRICAL DATA

Product description (short)	Nominal operation capacitance [nF/km]	Max. DC resistance, conductor (20°C) [ohm/km]	Operation self inductance [mH/km]	Screen DC resistance [Ohm/km]
AXMK-PLUS 4G16	0.3	1.91	0.29	
AXMK-PLUS 4G25	0.29	1.2	0.28	
AXMK-PLUS 4G35	0.29	0.868	0.28	
AXMK-PLUS 4G50	0.29	0.641	0.28	
AXMK-PLUS 4G70	0.29	0.443	0.27	
AXMK-PLUS 4G95	0.29	0.32	0.27	
AXMK-PLUS 4G120	0.28	0.253	0.26	
AXMK-PLUS 4G150	0.28	0.206	0.26	
AXMK-PLUS 4G185	0.28	0.164	0.26	
AXMK-PLUS 4G240	0.27	0.125	0.25	
AXMK-PLUS 4G300	0.26	0.1	0.25	

© Prysmian Finland Oy. All rights reserved.

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian; any modification or alteration afterwards of product may give different result.

The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian. The information is believed to be correct at the time of issue. Prysmian reserves the right to amend this specification without notice.

This specification is not contractually valid unless specifically authorised by Prysmian.

## CURRENT DATA

Product description (short)	Short circuit current conductor (1sec) [kA]	Short circuit current screen (1sec) [kA]	Current rating, ref. install. type E [A]	Current rating, ref. install. type D [A]
AXMK-PLUS 4G16	1.5		80	78
AXMK-PLUS 4G25	2.4		101	100
AXMK-PLUS 4G35	3.4		125	125
AXMK-PLUS 4G50	4.8		152	150
AXMK-PLUS 4G70	6.7		194	185
AXMK-PLUS 4G95	9		236	220
AXMK-PLUS 4G120	11.4		274	255
AXMK-PLUS 4G150	14.2		316	280
AXMK-PLUS 4G185	17.5		361	330
AXMK-PLUS 4G240	22.6		425	375
AXMK-PLUS 4G300	28.2		490	430

Current load, installation method E (in free air), conductor max.operation temp. Installation method D2 (in ground), conductor +65 °C