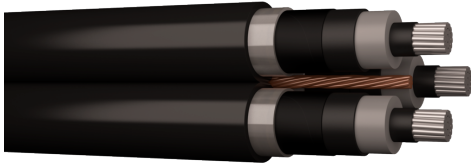


## Power cables 24 kV

# AHXAMK-W 12/20 (24) kV



### Application

Medium voltage power cable with stranded and compacted aluminium longitudinal and radial water sealed conductor. For fixed outdoor installation, can be ploughed down.

### Alternative Product Name

WISKI®

### Flame retardance

Flame retardant - Not applicable

### Standard

HD 620-10F  
IEC 60502-2

Harmonized construction standard  
Construction standard

### Construction

Cable Shape	Round
UNSPSC classification	26121629
Conductors	Stranded, round, compacted aluminium, longitudinally watertight
Center conductor	Round, stranded and compacted copper conductor
Conductor Insulation	PEX
Inner semi-conducting layer	Semi-conducting PEX
Individual screen for parts	Semi-conducting PEX
Core assembly	Three cores are stranded around the centre conductor
Inner covering	Conductive tape
Shield / Screen	Aluminium foil bonded tightly to sheath
Overall sheath	Black PE
Semi-conducting layer in outer sheath	Semi-conducting tape
Example of marking on sheath	AHXAMK-W 12/20 kV 3x150+35 DRAKA "Date and time", 1 core is metre marked

### Temperature

Maximum operating Temperature	90°C
Temperatures at installation [°C]	Lowest cable temperature during installation -20 °C, below 0 °C special precaution shall be taken.

### Features

Bending radius	In fixed installation: 10 x D When pulling-in: 15 x D When plowing down: 8 x D
Max Pulling force - pulling grip [N/mm <sup>2</sup> ]	15 N/mm <sup>2</sup> xA
Max Pulling force - pulling eye [N/mm <sup>2</sup> ]	50 N/mm <sup>2</sup> xA

### Electrical

Max. short circuit temperature [°C]	250°C
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Conductors and screen area [mm <sup>2</sup> ]	Standard delivery length [m]	Delivery Package	EAN/GTIN number	SAP Number
3x50+35 20kV	500	K24	6410006242504	20022490
3x95+35 20kV	500	K26	6410006242528	20022491
3x120+35 20kV	500	K26	6410006242535	20022492
3x150+35 20kV	500	K26	6410006242542	20022493
3x185+35 20kV	500	K26	6410006242559	20022495
3x240+35 20kV	500	K28	6410006242566	20022499
3x240+70 20kV	500	K28	6410006242566	20022498
3x300+35 20kV	500	K28	6410006242597	20022502
3x300+70 20kV	500	K28	6410006242573	20022501

Conductors and screen area [mm <sup>2</sup> ]	Cable diameter [mm]	Cable weight [kg/km]	Conductor resistance [Ω/km]	Centre conductor resistance [Ω/km]	Inductance/phase [mH/km]	Capacitance [μF/km]
AHXAMK-W 3x50+35	64	2350	0.641	0.524	0.46	0.17
AHXAMK-W 3x95+35	71	3100	0.32	0.524	0.4	0.21
AHXAMK-W 3x120+35	74	3450	0.253	0.524	0.39	0.23
AHXAMK-W 3x150+35	76	3800	0.206	0.524	0.37	0.24
AHXAMK-W 3x185+35	80	4300	0.164	0.524	0.36	0.26
AHXAMK-W 3x240+70	89	5500	0.125	0.268	0.35	0.3
AHXAMK-W 3x300+70	94	6250	0.1	0.268	0.34	0.32

Conductors and screen area [mm <sup>2</sup> ]	Charging current/phase [A/km]	Earth fault current [A/km]	Current rating at core temp. 65°C in ground [A]	Current rating at core temp. 65°C in air* [A]	Current rating at core temp. 90°C in air* [A]	Max. short circuit current on the conductor during 1s at initial temp.** 90°C kA
AHXAMK-W 3x50+35	0.6	1.8	155	160	195	4.7
AHXAMK-W 3x95+35	0.8	2.3	235	230	280	8.9
AHXAMK-W 3x120+35	0.8	2.5	265	265	325	11.3
AHXAMK-W 3x150+35	0.9	2.6	300	300	370	14.1
AHXAMK-W 3x185+35	1	2.9	330	345	425	17.4
AHXAMK-W 3x240+70	1.1	3.2	385	400	510	22.6
AHXAMK-W 3x300+70	1.2	3.5	435	460	565	28.3

\* Trefoil with screen grounded in both end.

The ratings are based on the following conditions –maximum conductor temperature 90°C –ground temperature 15°C –

air temperature 25°C –thermal resistivity of soil 1,0 °Km/W –depth of burial 0,65 m –frequency 50Hz