

AXPK-PLUS 4G120

1kV underground cable with aluminum conductors



APPLICATION

Halogen-free power cable with aluminium conductor. For fixed indoor and outdoor installation, perfect for ploughing down.

CERTIFICATIONS AND DESIGN STANDARDS

HD 603-5D	Distribution cables of rated voltage 0,6/1 kV
EN 60228	Conductor standard
IEC 60502-1	1 kV & 3 kV power cables with extruded insulation.
EN 50575:2014/A1:2016	Cables for general applications in construction works subject to reaction to fire requirements
HD 308 S2	Identification of cores in cables and flexible cords
EN 60332-1-2	Vertical flame propagation for a single insulated wire or cable
Conductor material	Aluminium
Conductor surface	Bare
Core insulation material	XLPE
Core identification (acc. HD 308 S2)	Yes
Material outer sheath	Halogenfree polymer
Max. conductor temperature [°C]	90
UV resistant	Yes
Permitted cable outer temperature during assembling/handling (min) [°C]	-20
Bending radius (rule)	12xD
Reaction-to-fire class (acc. EN 13501-6)	Eca
Flame retardant	In accordance with EN/IEC 60332-1-2

PRODUCT PROPERTIES

Conductor category	Class 2 = stranded
Shape of conductor	Sector-shaped
Nominal cross section conductor [mm²]	120
Number of cores	4
With protective conductor	Yes
Colour outer sheath	Black
Nominal outer diameter [mm]	38
Conductor resistance at 20° C [Ohm/km]	0.253
Current carrying capacity in air [A]	274
Current carrying capacity in ground [A]	255
Cable weight [kg/km]	1,700
Min. bending radius during installation [mm]	440
DOP number	1001430

Current load in air, installation method E, temperature 25°C

Current load in ground, installation method D2 (directly in ground). Ground temperature 15°C, thermal resistivity 1,0 K·m/W

Item name	EAN-code (GTIN)	Packaging type	Standard packaging quantity
AXPK-PLUS 4G120 1kV T500	4741532120243	Drum	500
AXPK-PLUS 4G120 1kV	4741532120199	Drum	1,000