

AMCMK 3X70/21

Screen protected 1 kV power cable with aluminium conductors



APPLICATION

For fixed installation indoors, outdoors and underground, as well as in building structures e.g. directly in concrete (but not in sliding joints).

CERTIFICATIONS AND DESIGN STANDARDS



EN 60228
IEC 60502-1
HD 603-3F
HD 308 S2
EN 60332-1-2

Conductor standard
 1 kV & 3 kV power cables with extruded insulation.
 Distribution cables of rated voltage 0,6/1 kV
 Identification of cores in cables and flexible cords
 Vertical flame propagation for a single insulated wire or cable

Conductor material	Aluminium
Conductor surface	Bare
Core insulation material	Polyvinyl chloride (PVC)
Core identification (acc. HD 308 S2)	Yes
Material outer sheath	Polyvinyl chloride (PVC)

Max. conductor temperature [°C]	70
Max. conductor temperature at short circuit [°C]	160
Permitted cable outer temperature after assembling without vibration (min) [°C]	-40
Resistant to UV	Yes
Permitted cable outer temperature during assembling/handling (min) [°C]	-15
Bending radius (rule)	12x OD

Flame retardant	In accordance with EN 13501-6
Reaction-to-fire class (acc. EN 13501-6)	Eca
UV resistant	Yes

PRODUCT PROPERTIES

Conductor category	Class 2 = stranded
Shape of conductor	Sector-shaped
Nominal cross section conductor [mm ²]	70
Number of cores	4
With protective conductor	Yes
Colour outer sheath	Black
Nominal outer diameter [mm]	31
Conductor resistance at 20° C [Ohm/km]	0.443
Current carrying capacity in air [A]	159
Current carrying capacity in ground [A]	185
Cable weight [kg/km]	1,300
Min. bending radius during installation [mm]	370
DOP number	1000870

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
AMCMK 3X70/21 AN 1KV K500 ECA	6410006221615	Drum	500