

XPK 5G10

1kV halogen free power cable with copper conductors



APPLICATION

Halogen-free and flame retardant power cable for places with higher safety requirements. Smoke generation in the event of fire is small, transparent (to facilitate evacuation) and not harmful to electronic equipment. In case of outdoor installation the cable should be protected for mechanical stress and water submersion.

CERTIFICATIONS AND DESIGN STANDARDS

EN 60228	Conductor standard
HD 604-5G	1 kV & 3,3 kV power cables with special fire performance
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
EN 60332-3	Tests on electric and optical fibre cables under fire conditions. Part 3: Test for vertical flame spread of vertically-mounted bunched wires or cables.
IEC 60754	Corrosive gases
IEC 61034	Smoke density
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Conductor material	Copper
Conductor surface	Bare
Core insulation material	XLPE
Core identification (acc. HD 308 S2)	Yes
Material outer sheath	Halogenfree polymer
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Rated voltage U0/U (Um)	0.6/1 (1.2) kV
Max. conductor temperature [°C]	90
UV resistant	Yes
Permitted cable outer temperature during assembling/handling (min) [°C]	-15
Bending radius (rule)	12xD
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Reaction-to-fire class (acc. EN 13501-6)	Cca
Smoke development class (acc. EN 13501-6)	s1
Euro class flaming droplets/particles (acc. EN 13501-6)	d1
Euro class acidity (acc. EN 13501-6)	a1
Flame retardant	In accordance with EN/IEC 60332-1-2
Halogen free (acc. IEC 60754-2)	Yes
Low smoke (acc. IEC 61034-2)	Yes

PRODUCT PROPERTIES

Conductor category	Class 1 = solid
Shape of conductor	Round
Nominal cross section conductor [mm ²]	10
Number of cores	5
With protective conductor	Yes
Colour outer sheath	Black
Nominal outer diameter [mm]	18
Current carrying capacity [A]	56
Conductor resistance at 20° C [Ohm/km]	1.83
Current carrying capacity in air [A]	78
Cable weight [kg/km]	710
Min. bending radius during installation [mm]	210
DOP number	1015210

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

Current load, Installation method A1 (e.g. inside insulated wall), air 25°C

Item name	EAN-code (GTIN)	Packaging type	Standard packaging quantity
XPK-HF C Pro 5G10 RE 1kV T500	4741532123268	Drum	500