

XPk-HF C-PRo 5G6 RM

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

HD 604-5G

EN 50575:2014/A1:2016

HD 308 S2

EN 60332-1-2

EN 60332-3

IEC 60754

IEC 61034

Conductor standard

1 kV & 3,3 kV power cables with special fire performance

Cables for general applications in construction works subject to reaction to fire requirements

Identification of cores in cables and flexible cords

Vertical flame propagation for a single insulated wire or cable

Tests on electric and optical fibre cables under fire conditions. Part 3: Test for vertical flame spread of vertically-mounted bunched wires or cables.

Corrosive gases

Smoke density

Conductor material	Copper
Conductor surface	Bare
Core insulation material	XLPE
Core identification (acc. HD 308 S2)	Yes
Material outer sheath	Halogenfree polymer
Rated voltage U ₀ /U (Um)	0.6/1 (1.2) kV
Max. conductor temperature [°C]	90
Max. conductor temperature at short circuit [°C]	250
Permitted cable outer temperature during assembling/handling (min) [°C]	-15
Bending radius (rule)	12xD
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 2 = stranded
Shape of conductor	Round
Nominal cross section conductor [mm²]	6
Number of cores	5
With protective conductor	Yes
Colour outer sheath	
Nominal outer diameter [mm]	16
Current carrying capacity [A]	41
Conductor resistance at 20° C [Ohm/km]	3.08
Current carrying capacity in air [A]	56
Cable weight [kg/km]	500
Min. bending radius during installation [mm]	190
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
XPB-HF C Pro 5G6 RM 1kV T500	4741532122858	Drum	500