

# Alsecure Plus 1 kV $\geq 6 \text{ mm}^2$

Alsecure Plus 1 kV 4X70/35

## Contact

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The cable may be used for fixed installation both indoors and outdoors in places that have requirements of function during and after fire i.e. lightings, alarms and control systems. The cable can be installed directly in the ground.

## DESCRIPTION

Alsecure Plus is a halogen free, flame retardant power cable with circular or sector shaped, annealed, stranded copper conductors. The cable is insulated with Mica tape +coloured XLPE and a screen of annealed copper wires with opposite open helix of copper. Alsecure Plus is designed according to HD 603. The conductors have resistance and number of wires according to IEC 60228 class 2. The cores are identified by colours according to HD 308. The sheath is marked type/manufacturer/year+month/metre marking. Alsecure Plus meets the requirements for flammability IEC 60332-3 category C and emits no corrosive gases when burning and has low smoke production. The cable is certified by SEMKO.

## Lifemark(TM) recycling marking

The external surface of the outer sheath is embossed with a text which specifies all components in the polymers and prepares the cable for future recycling.

## Certification

Certified by SEMKO.

## Fire characteristics

Tested and approved according to several international standards, among others IEC 60331 (90 min), IEC 60332-3 cat C SS 424 14 75, IEC 61034, IEC 60754-2.

## Quality and environmental management system

Certified according to ISO 9001, IRIS, ISO/TS 16949 and ISO 14001.



# Lifemark™

## STANDARDS

International HD 604.5D;  
IEC 60332-3 Cat.C



Conductor flexibility  
**Stranded class 2**



Halogen free  
**Yes**



Rated Voltage  $U_0/U$   
(Um)  
**0.6/1 kV**



Minimum installation  
temperature  
**-10 °C**



Maximum operating  
temperature  
**90 °C**



Bending factor  
when laying  
**12 (xD)**



Bending factor  
installed  
**8 (xD)**



Fire resistant  
**IEC 60331**

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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# Nexans

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## CHARACTERISTICS

### Construction characteristics

Conductor material	Copper
Conductor flexibility	Stranded class 2
Insulation	XLPE + Mica tape
Outer sheath	HFFR (polyolefin)
Colour	Orange
Halogen free	Yes
Conductor shape	Sector-shaped

### Dimensional characteristics

Number of cores	4
Conductor cross-section	70 mm <sup>2</sup>
Conductor diameter	- mm
Average insulation thickness	1.1 mm
Screen section	35 mm <sup>2</sup>
Average sheath thickness	2.1 mm
Nominal outer diameter	36.0 mm
Approximate weight	3840 kg/km

### Electrical characteristics

Max. DC resistance of the conductor at 20°C	0.268 Ohm/km
Resistance of the screen	0.52 Ohm/km
Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> )	0.6/1 kV

### Usage characteristics

Minimum installation temperature	-10 °C
Recommended minimum installation temperature	0 °C
Maximum operating temperature	90 °C
Short-circuit max. conductor temperature	250 °C
Bending factor when laying	12 (xD)
Bending factor when installed	8 (xD)
Length	500 m
Packaging	K14
Fire resistant	IEC 60331
Fire retardant	IEC 60332-3 Cat.C
Gases corrosivity	IEC 60754-2
Installation type	Indoor/Outdoor
Smoke density	IEC 61034

## SELLING AND DELIVERY INFORMATION

Alsecure Plus will be delivered in lengths of 500 m. The drum is marked with manufacturer, type of cable and length. The ends of the cable are sealed.

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