ALSECURE® PREMIUM 300/500V 5G2,5

Contact

Phone: +46 (0)325 80 000 ccc.se@nexans.com

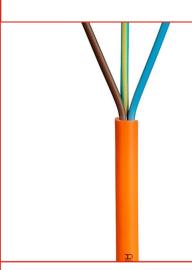
Nexans Ref.: 27010598 Country Ref.: 0474155 Uo/U: 300/500V NBN 713-020 **INFIT Technology** Halogen free Fire resistant cables

DESCRIPTION

Application

ALSECURE® PREMIUMcables are designed to be used in safety systems (emergency lights, warning systems, fire fighting equipments, etc ...) in all premises open to the public (concert hall, theaters, cinemas, department stores, hospitals, schools, etc ...), in high-rises buildings, in tunnels, in industries.

ALSECURE® PREMIUM cables, with INFIT™ technology, are fire resistant and fire retardant, low smoke and halogen free. In the event of fire, emitted gazes are non corrosive and have a very low toxicity.



STANDARDS

International IEC 60228

Installation

ALSECURE® PREMIUMcables will be installed in accordance with the current regulation. ALSECURE® PREMIUM has to be protected against direct sun lighting when used outside.

In case of laying operation between 0°C and -10°C, warm up the cables in a heated room 48 hours minimum before installation.

ALSECURE® PREMIUM cables are not designed for buried installation.

ALSECURE® PREMIUM products are designed in order to simplify installation conditions thanks to a very high sturdiness of INFIT™ insulation.

Fire performance



Halogen free



Conductor flexibility Solid class 1



Rated Voltage Uo/U (Um) 300 / 500 V



Cable flexibility Rigid



Fire resistant IEC 60331-21, EN 1363, NBN C 30-004 FR2 Rf2h



Fire retardant IEC 60332-3, EN 1363, NBN C 30-004 F2, SS 424 14 75 class F4A



IEC 61034



Gases toxicity







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· Fire resistant according to :

International: IEC 60331-21, EN 50200, EN 1363 (PH 60),

Belgium: NBN C 30-004 FR2 Rf2h

• Fire retardant according to :

International: IEC 60332-3-22/23/24, EN 50266

Belgium: NBN C 30-004 F2 Sweden: SS 424 14 75 class F4A

• Flame retardant according to : NF C 32-070-1 Cat C2, IEC 60332-1,

 Low smoke: NF C 32-073, IEC 61034, EN 50268 Halogen free: NF C 32-074, IEC 60754, EN 50267

• Low toxicity: NF C 20-454 (ITC<5)

Low corrosivity: NF C 32-074, IEC 60754, EN 50267

Construction

Conductor

Bare copper

Insulation

High mechanical resistance INFIT™ rubber

Outer sheath

Halogen free compound Colour: orange

Marking

ALSECURE PREMIUM "nx (or G) S" mm2 300/500V NEXANS 279 NBN C 30-004 F2 FR2 Rf2h week year

n = number of cores S = section in mm²



Halogen free



Conductor flexibility Solid class 1



Rated Voltage Uo/U (Um) 300 / 500 V



Cable flexibility Rigid



Fire resistant IEC 60331-21, EN 1363, NBN C 30-004 FR2 Rf2h



Fire retardant IEC 60332-3, EN 1363, NBN C 30-004 F2, SS 424 14 75 class F4A



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CHARACTERISTICS

Construction characteristics	
Halogen free	-
Conductor material	Bare copper
Insulation	High mechanical resistance elastomer - INFIT™ in accordance to standard NF C 32 102-1
Outer sheath	Halogen free polyolefin
Sheath colour	Orange
Conductor flexibility	Solid class 1
Higher heating value	1930 MJ/km
With Green/Yellow core	Yes
With smaller neutral conductor	No
Dimensional characteristics	
Number of cores	5
Conductor cross-section	2.5 mm ²
Minimum outer diameter	11.3 mm
Maximum outer diameter	12.4 mm
Approximate weight	260 kg/km
Neutral conductor section (when smaller)	- mm²
Electrical characteristics	
Permissible current rating in open air	32 A
Rated Voltage Uo/U (Um)	300 / 500 V
Voltage drop, 3 conductors	12.8 V/A.km
Voltage drop, single phase	- V/A.km
Mechanical characteristics	
Cable flexibility	Rigid
Usage characteristics	
Fire resistant	IEC 60331-21, EN 1363, NBN C 30-004 FR2 Rf2h
Fire retardant	IEC 60332-3, EN 1363, NBN C 30-004 F2, SS 424 14 75 class F4A
Smoke density	IEC 61034
Gases toxicity	Low
Gases corrosivity	-
Operating temperature, range	-20 - 60 °C
Flame retardant	IEC 60332-1
Packaging	-





Max. conductor temperature in service



90 °C

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COMPLEMENTARY CHARACTERISTICS

Core identification

(In accordance with european harmonization HD308 S2)

2x: brown - blue 3x: brown - black - grey 3G: brown - blue - green/yellow 4x: brown - black - grey - blue 4G: brown - black - grey - green/yellow 5x: black cores with printed numbers 5G: blue - brown - black - grey - green/yellow

Type approval

ISSEP: Institut Scientifique de Service Public

Current rating capacities

The data are indicated for continuous duty operation and apply to:

- Maximum conductor temperature = 90 °C
- Nominal frequency = 50 Hz
- One cable in free air (on perforated trays)
- Ambient temperature = 30 °C

Data recording from IEC 60364-5-52 or NF C 15-100

Voltage drop

The data are based on Cos phi = 0.8

Minimum bending radius

r = 6 x cable outer diameter

