



**Nexans Ref.:** 10515495  
**EAN 13:** 5413404299133

### FIRE PERFORMANCE CLASS



Cca-s1,d1,a1

### CONTACT

Product Management  
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Nexans YMz1K Cca is a halogen free power cable according to fire classification Cca-s1,d1,a1 for connection in low voltage installation up to 0.6/1 kV in construction works with a high fire hazard level. ALSECURE® YMz1K Cca FLEX provided with conductors with increased bendability (FLEX)

### STANDARDS

**Product** HD 604 S1 part 5/sect. C; IEC 60228

### APPLICATION

**Nexans YMz1K Cca** is a halogen free low smoke power cable for general use in construction works subject to performance requirements on reaction to fire. **Nexans YMz1K Cca** is suitable for application in low voltage installations up to 0.6/1 kV, according to NEN 1010. It meets the requirements according to fire classification Cca-s1,d1,a1 for buildings and civil engineering works with a high fire hazard level (NEN 8012).

**Available from 35 mm<sup>2</sup>:** Nexans YMz1K Cca FLEX, provided with conductors with increased bendability.

### MAIN BENEFITS

**Easy Strippable-** Cables (1.5 - 6 mm<sup>2</sup>) are easy to strip

**PEP EcoPassport** - EPD environmental passport available

**UV Resistant** - Our cables passed the 720 hour test according to the test standard EN 50289-4-17 Method A

### Design

1. Conductor  
Sections till 10 mm<sup>2</sup>: Bare copper, solid , class 1  
Sections from 10 mm<sup>2</sup>: Bare copper, stranded, class 2
2. Insulation: XLPE
3. Inner covering: Halogen free compound
4. Outer sheath: Halogen free compound  
Colour: grey  
UV resistance: Yes



Conductor flexibility  
**Solid class 1**



Halogen free  
**Yes**



Rated Voltage U<sub>0</sub>/U  
(Um)  
**0,6/1 kV**



Mechanical  
resistance to  
impacts  
**Good**



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



Minimum  
installation  
temperature  
**0 °C**



Operating temp.  
**-20 ... 80 °C**



Max. conductor  
temp.in service  
**90 °C**

### CHARACTERISTICS

#### Construction characteristics

Conductor flexibility	Solid class 1
Insulation	XLPE (Cross-linked Polyethylene)
Core identification	Blue, brown, green / yellow
Conductor material	Bare copper
Outer sheath	Halogen free compound
Sheath colour	Grey
Halogen free	Yes
Conductor shape	Round solid
With Green/Yellow core	Yes

#### Dimensional characteristics

Number of cores	3
Conductor cross-section	1.5 mm <sup>2</sup>
Nominal outer diameter	10.6 mm
Approximate weight	207 kg/km
Average insulation thickness	0.7 mm
Nominal outer sheath thickness	1.8 mm

#### Electrical characteristics

Permissible current rating in open air	23 A
Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> )	0,6/1 kV

#### Mechanical characteristics

Mechanical resistance to impacts	Good
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#### Usage characteristics

Bending factor when laying	10 (xD)
One single bending at each end minimum	8 (xD)
Field of application	Standard
Minimum installation temperature	0 °C
Operating temperature, range	-20 ... 80 °C
Max. conductor temperature in service	90 °C
U.V resistance	EN 50289-4-17 method A, for 720h

### SELLING AND DELIVERY INFORMATION

#### Marking

ALSECURE YMz1K Cca n (x or G) s mm<sup>2</sup>  
NEXANS BENELUX  
KEMA KEUR  
Meter Marking

#### Core identification

- 1 core: neutral
- 2 cores: brown - light blue
- 3G cores: green/yellow - light blue - brown

- 3x cores: black -grey- brown
- 4 cores: green/yellow - brown-black-grey
- 5 cores: green/yellow - light blue - brown - black - grey