



**Nexans Ref.:** 10542304  
**EAN 13:** 5413404313808

**FIRE PERFORMANCE CLASS**



B2ca-s1,d1,a1

**CONTACT**

Product Management  
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YMz1K ss ULTRAFLEX is an extra flexible halogen free power cable according to fire classification B2ca-s1,d1,a1 for connection in low voltage installations up to 0.6/1 kV in construction works with a very high fire hazard level.

**STANDARDS**

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

**APPLICATIONS**

Nexans YMz1K ss B2ca ULTRAFLEX is an extra flexible halogen free power cable for general use in construction works subject to performance requirements on reaction to fire. YMz1K ss B2ca ULTRAFLEX is suitable for application in low voltage installations up to 0.6/1 kV, according to NEN1010. It meets the requirements according to fire classification B2ca-s1,d1,a1 for buildings and civil engineering works with a very high fire hazard level (NEN 8012).

**DESIGN**

**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: Bare copper, stranded, class 5 / resistance class 2
2. Insulation: XLPE
3. Inner covering: Halogen free compound
4. Outer sheath: Halogen free compound  
 Colour: grey  
 UV resistance: Yes



Conductor flexibility  
**Highly flexible, class 2**



Halogen free  
**IEC 60754**



Rated Voltage Uo/U  
**0,6/1 kV**



Mechanical resistance to impacts  
**Good**



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



Minimum installation temperature  
**0 °C**



Operating temp.  
**-20 ... 80 °C**



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

## CHARACTERISTICS

### Construction characteristics

Conductor material	Bare copper
Conductor flexibility	Highly flexible, class 2
Conductor shape	Round, multi stranded
Insulation	XLPE (Cross-linked Polyethylene)
Core identification	Blue, brown, black, grey, green / yellow
Outer sheath	Halogen free compound
Sheath colour	Grey
Halogen free	IEC 60754
With Green/Yellow core	Yes

### Dimensional characteristics

Number of cores	5
Conductor cross-section	70 mm <sup>2</sup>
Average insulation thickness	1.1 mm
Nominal outer sheath thickness	2.1 mm
Nominal outer diameter	40.0 mm
Approximate weight	4280 kg/km

### Electrical characteristics

Permissible current rating in open air	246 A
Max. DC resistance of the conductor at 20°C	0.268 Ohm/km
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	8 (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-ss B2ca 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