



Nexans Ref.: 10515467
EAN 13: 5413404298907

FIRE PERFORMANCE CLASS



Cca-s1,d1,a1

CONTACT

Product Management
service.nnl@nexans.com

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 mm²: Nexans YMz1K Cca FLEX, provided with conductors with increased bendability.

MAIN BENEFITS

Easy Strippable- Cables (1.5 - 6 mm²) 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 mm²: Bare copper, solid , class 1
Sections from 10 mm²: 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 U₀/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 |
| Conductor material | Bare copper |
| Outer sheath | Halogen free compound |
| Sheath colour | Grey |
| Halogen free | Yes |
| Conductor shape | Round solid |
| With Green/Yellow core | No |

Dimensional characteristics

| | |
|--------------------------------|---------------------|
| Number of cores | 2 |
| Conductor cross-section | 2.5 mm ² |
| Nominal outer diameter | 11.0 mm |
| Approximate weight | 214 kg/km |
| Average insulation thickness | 0.7 mm |
| Nominal outer sheath thickness | 1.8 mm |

Electrical characteristics

| | |
|----------------------------------------|----------|
| Permissible current rating in open air | 36 A |
| Rated Voltage U ₀ /U (Um) | 0,6/1 kV |

Mechanical characteristics

| | |
|----------------------------------|------|
| Mechanical resistance to impacts | Good |
|----------------------------------|------|

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 mm²
 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