



B2_{ca}

Nexans Ref.: 10542305
EAN 13: 5413404313815

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
 (Um)
 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	95 mm ²
Average insulation thickness	1.1 mm
Nominal outer sheath thickness	2.3 mm
Nominal outer diameter	46.5 mm
Approximate weight	5785 kg/km

Electrical characteristics

Permissible current rating in open air	298 A
Max. DC resistance of the conductor at 20°C	0.193 Ohm/km
Rated Voltage U ₀ /U (Um)	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 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