

D_{ca}

Nexans Ref.: 10559858
EAN 13: 5413404321407

FIRE PERFORMANCE CLASS



Dca-s2,d2,a3



CONTACT

Product Management
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Power cable according to Dutch standard with fire classification Dca-s2,d2,a3 for usage in low voltage installations up to 0.6/1 kV in housing, residential and similar installation with a medium fire hazard level

STANDARDS

Product HD 604.4D; IEC 60228

Test KEMA 42 C-1-4-D

APPLICATIONS

YMvK Dca 0.6/1 kV is a power cable for general use in construction works subject to performance requirements on reaction to fire. **YMvK Dca 0.6/1 kV** 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 **Dca-s2,d2,a3** for usage in buildings and civil engineering works with a medium fire hazard level (NEN 8012).

Thanks to its improved flexibility **YMvK Dca-s2 FLEX 0.6/1 kV** is easier to install than the non-flexible version. **YMvK Dca FLEX 0.6.1 kV** is available from 35 mm².

YMvK Dca-s2 0.6/1 kV Easy Strippable has an improved design with an easier to strip cable sheaths. With **Easy Strippable** you can remove the sheath in a single smooth motion over a length of up to 100 cm.

Design

1. Conductor:
Conductors until 10 mm²: Bare copper, solid, class 1
Conductors from 10 mm²: Bare copper, stranded, class 2
2. Insulation: XLPE
3. Inner covering: filling compound
4. Outer sheath: PVC
Colour: Grey
UV resistance: Yes

CORE IDENTIFICATION

- 1 core : black
- 2 cores : brown - blue
- 3G cores: brown - blue - green/yellow
- 3x cores : black - brown - grey
- 4 cores : brown - black - grey - green/yellow
- 5 cores : brown - blue - black - grey - green/yellow



Conductor flexibility
Solid class 1



Lead 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

| | |
|------------------------|--|
| With Green/Yellow core | Yes |
| Core identification | Blue, brown, black, grey, green / yellow |
| Sheath colour | Grey |
| Conductor shape | Round solid |
| Conductor material | Bare copper |
| Insulation | XLPE (chemical) |
| Protection | Filler |
| Outer sheath | PVC |
| Conductor flexibility | Solid class 1 |
| Lead free | Yes |

Dimensional characteristics

| | |
|--------------------------------|-------------------|
| Number of cores | 5 |
| Conductor cross-section | 4 mm ² |
| Approximate weight | 388 kg/km |
| Nominal outer diameter | 14.5 mm |
| Average insulation thickness | 0.7 mm |
| Nominal outer sheath thickness | 1.8 mm |

Electrical characteristics

| | |
|---|-------------|
| Loop resistance, max. at 20°C | 4.61 Ohm/km |
| Permissible current rating in open air | 42 A |
| Rated Voltage U ₀ /U (U _m) | 0,6/1 kV |









Mechanical characteristics

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













Usage characteristics

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















CURRENT CAPACITY TABLE PR SINGLE PHASE SINGLE CORE

| Conductor cross-section [mm²] |  Cu |  Cu |  Cu |  Cu |
|--|---|--|--|--|
| 4 | 35 | 42 | 45 | - |
|  A1 Insulated conductors in conduit in a thermally insulated wall |  B1 Insulated conductors in conduit on a wooden wall |  C Single-core or multi-core cable on a wooden wall | | |
|  F Single-core flat cables, touching in free air | | | | |













CURRENT CAPACITY TABLE PR SINGLE PHASE MULTICORE

| Conductor cross-section [mm ²] |  Cu |  Cu |  Cu |  Cu |  Cu |  Cu |
|--|--|--|--|--|--|--|
| 4 | 33 | 40 | 43 | 45 | 46 | 49 |
|  A2 Multi-core cable in conduit in a thermally insulated wall |  B2 Multi-core cable in conduit on a wooden wall |  C Single-core or multi-core cable on a wooden wall | | | | |
|  D1 Multi-core cable in ducts in the ground |  D2 Multi-core cables designed to be buried directly in the ground |  E Multi-core cable in free air | | | | |

CURRENT CAPACITY TABLE PR THREE PHASE SINGLE CORE

| Conductor cross-section [mm²] |  Cu |  Cu |  Cu |  Cu |  Cu |  Cu |  Cu |
|--|---|--|--|---|--|--|--|
| 4 | 31 | 37 | 40 | 36 | 39 | - | - |
|  A1 Insulated conductors in conduit in a thermally insulated wall |  B1 Insulated conductors in conduit on a wooden wall |  D1 Single or Multi-core cable in ducts in the ground | | | | | |
|  C Single-core or multi-core cable on a wooden wall |  D2 Single or Multi-core cables designed to be buried directly in the ground |  F Single-core trefoil cables, touching in free air | | | | | |
|  F Single-core flat cables, touching in free air | | | | | | | |

CURRENT CAPACITY TABLE PR THREE PHASE MULTICORE NL

| Conductor cross-section [mm ²] |  Cu |  Cu |  Cu |  Cu |  Cu |  Cu |
|--|---|--|--|--|--|--|
| 4 | 30 | 35 | 36 | 40 | 39 | 42 |
|  A2 Multi-core cable in conduit in a thermally insulated wall |  B2 Multi-core cable in conduit on a wooden wall |  D1 Multi-core cable in ducts in the ground | | | | |
|  C Single-core or multi-core cable on a wooden wall |  D2 Multi-core cables designed to be buried directly in the ground |  E Multi-core cable in free air | | | | |

SELLING AND DELIVERY INFORMATION**Marking**

YMvK Dca (FLEX) n (x or G) s mm²
NEXANS BENELUX
KEMA KEUR
Meter Marking