



Nexans Ref.: 10559866  
EAN 13: 5413404321483

### FIRE PERFORMANCE CLASS



Dca-s2,d2,a3



### CONTACT

Product Management  
service.nnl@nexans.com

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 mm<sup>2</sup>.

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 mm<sup>2</sup>: Bare copper, solid, class 1  
Conductors from 10 mm<sup>2</sup>: 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 U<sub>0</sub>/U  
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 | No              |
| Core identification    | Blue, brown     |
| 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                | 2                 |
| Conductor cross-section        | 4 mm <sup>2</sup> |
| Approximate weight             | 238 kg/km         |
| Nominal outer diameter         | 11.9 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            | 49 A        |
| Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> ) | 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<br>[mm <sup>2</sup> ]  |  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<br>[mm <sup>2</sup> ]  |  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 |  |  |  E Multi-core cable in free air |  |
|  D1 Multi-core cable in ducts in the ground                  |  D2 Multi-core cables designed to be buried directly in the ground |  |  |  |   |  |

### CURRENT CAPACITY TABLE PR THREE PHASE SINGLE CORE

| Conductor cross-section<br>[mm <sup>2</sup> ]  |  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 |  |   |  F Single-core trefoil cables, touching in free air |  |  |
|  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 flat cables, touching in free air                  |   |  |  |   |  |  |  |

### CURRENT CAPACITY TABLE PR THREE PHASE MULTICORE NL

| Conductor cross-section<br>[mm <sup>2</sup> ]  |  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 mm<sup>2</sup>  
NEXANS BENELUX  
KEMA KEUR  
Meter Marking