

D<sub>ca</sub>

Nexans Ref.: 10559852  
EAN 13: 5413404321346

### 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 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 Uo/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, 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	3
Conductor cross-section	4 mm <sup>2</sup>
Approximate weight	278 kg/km
Nominal outer diameter	12.5 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 <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

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 [mm²]	 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	D2 Single or Multi-core cables designed to be buried directly in the ground		 D1 Single or Multi-core cable in ducts in the ground	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 [mm²]	 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