

Nexans Ref.: 10559893  
EAN 13: 5413404321759

### 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 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	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	2.5 mm <sup>2</sup>
Approximate weight	291 kg/km
Nominal outer diameter	13.3 mm
Average insulation thickness	0.7 mm
Nominal outer sheath thickness	1.8 mm

#### Electrical characteristics

Loop resistance, max. at 20°C	7.41 Ohm/km
Permissible current rating in open air	32 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 [mm <sup>2</sup> ]	 Cu	 Cu	 Cu	 Cu
2.5	26	31	33	-
 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 <sup>2</sup> ]	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu
2.5	25	30	33	33	35	36
 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			 E Multi-core cable in free air		

### CURRENT CAPACITY TABLE PR THREE PHASE SINGLE CORE

Conductor cross-section [mm <sup>2</sup> ]	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu
2.5	23	28	28	30	30	-	-
 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 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 <sup>2</sup> ]	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu
2.5	22	26	28	30	30	32
 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				 E Multi-core cable in free air
 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