

Nexans Ref.: 10559877  
EAN 13: 5413404321599

### FIRE PERFORMANCE CLASS



Dca-s2,d2,a3



### CONTACT

Product Management  
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VO-YMvKas Dca-s2 is a braided power cable according to fire classification Dca-s2,d2,a3 for connection in low voltage installation up to 0.6/1 kV.

### STANDARDS

**Product** HD 604.4D; IEC 60228

**Test** KEMA 42 C-1-4-D

### KEY CHARACTERISTICS

Dimensional characteristics	
Conductor cross-section	2.5 mm <sup>2</sup>
Number of cores	5
Cross-section of the protection cores	2.5 mm <sup>2</sup>

### APPLICATIONS

VO-YMvKas Dca-s2 0.6/1 kV is a braided power cable according to fire classification Dca-s2,d2,a3 for usage in low voltage installations up to 0.6/1 kV in housing, residential and similar installations with a medium fire hazard level. VO-YMvKas Dca-s2 is suitable for direct burial and is advised if protection against mechanical damage and EMI is demanded. This cable has a reduced propagation of fire in cable bundles.

### Design

1. Conductor: Bare copper, solid, class1
2. Insulation: XLPE
3. Inner covering: PVC
4. Armour: Galvanized steel wire braiding with an underlying drainwire of tinned copper
5. Outer sheath: PVC  
Colour: grey  
UV resistance: Yes

### CORE IDENTIFICATION

- 2 cores : brown - blue
- 3 cores : brown - black - grey
- 4 cores : brown - blue - black - grey
- 5 cores : black - blue - brown - black - grey



Conductor flexibility  
Solid class 1



Lead free  
Yes



Rated Voltage U<sub>0</sub>/U  
0,6/1 kV



Mechanical  
resistance to  
impacts  
Excellent



Max. conductor  
temp. in service  
90 °C



Minimum  
installation  
temperature  
0 °C



Operating temp.  
-20 ... 80 °C



Electro magnetic  
interference  
resistance  
Yes

### CHARACTERISTICS

#### Construction characteristics

Conductor material	Bare copper
Conductor flexibility	Solid class 1
Conductor shape	Round solid
Insulation	XLPE (chemical)
Core identification	Blue, brown, black, grey, black
Inner sheath	PVC
Armour type	Galvanized steel wire braiding
Outer sheath	PVC
Sheath colour	Grey
Lead free	Yes
With Green/Yellow core	No

#### Dimensional characteristics

Conductor cross-section	2.5 mm <sup>2</sup>
Number of cores	5
Cross-section of the protection cores	2.5 mm <sup>2</sup>
Nominal outer diameter	15.7 mm
Approximate weight	420 kg/km
Average insulation thickness	0.7 mm
Inner sheath thickness	0.8 mm
Diameter over filler / inner sheath	10.7 mm
Armour thickness	0.3 mm
Nominal outer sheath thickness	1.8 mm

#### Electrical characteristics

DC permissible current rating	29 A
Loop resistance, max. at 20°C	7.41 Ohm/km
Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> )	0,6/1 kV













#### Mechanical characteristics

Mechanical resistance to impacts	Excellent
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#### Usage characteristics

Field of application	-
One single bending at each end minimum	8 (xD)
Max. conductor temperature in service	90 °C
Minimum installation temperature	0 °C
Operating temperature, range	-20 ... 80 °C
Electro magnetic interference resistance	Yes
U.V resistance	EN 50289-4-17 method A, for 720h













### 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				
 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 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 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				
 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			

### 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					
 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							

## SELLING AND DELIVERY INFORMATION

### Marking

VO-YMvKas Dca n x s mm<sup>2</sup>  
NEXANS BENELUX  
KEMA KEUR  
Meter Marking