VO-YMvKas Dca-s2 0.6/1 kV

VO-YMvKas Dca-s2 0.6/1 kV 5X4 MM2

Nexans Ref.: 10559882
EAN 13: 5413404321643

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	4 mm²
Number of cores	5
Cross-section of the protection cores	4 mm²

APPLICATIONS

VO-YMvKas Dca-s2 0.6/1 kVis 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 underlaying 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 Uo/U (Um) **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**

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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	4 mm²
Number of cores	5
Cross-section of the protection cores	4 mm²
Nominal outer diameter	17.1 mm
Approximate weight	546 kg/km
Average insulation thickness	0.7 mm
Inner sheath thickness	0.8 mm
Diameter over filler / inner sheath	12.0 mm
Armour thickness	0.3 mm
Nominal outer sheath thickness	1.8 mm
Electrical characteristics	
DC permissible current rating	37 A
Loop resistance, max. at 20°C	4.61 Ohm/km
Rated Voltage Uo/U (Um)	0,6/1 kV
Mechanical characteristics	
Mechanical resistance to impacts	Excellent
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

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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 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 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

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

SELLING AND DELIVERY INFORMATION

Marking

VO-YMvKas Dca n x s mm²
NEXANS BENELUX
KEMA KEUR
Meter Marking