



Reference: 79461220

#### CONTACT

Markets and Products Information  
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## UNSCREENED SINGLE CORE CABLE

FLAMEX® 4GKW power cables are used for fixed and protected installations. This product range is recommended for narrow spaces where an optimal bending radius is required. FLAMEX® cables are designed to withstand tough working conditions (oil, ozone, temperature variation, etc.). 120°C conductor temperature is allowed for a 20,000 hours cumulative working time.

## STANDARDS

Product EN 45545-2 (HL3); EN 50264-3-1; IEC 60228

## DESIGN

### 1. Conductor

Flexible stranded tinned copper, class 5 acc. to IEC 60228  
Optional halogen-free separator tape

### 2. Insulation

Cross-linked compound type EI 109 acc. to EN 50264-1  
Oil, diesel, ozone and UV resistant  
Colour: black

Example of cable marking up to 10 mm<sup>2</sup>: FLAMEX type EN 50264-3-1 1800V (mm<sup>2</sup>) M 4GKW | LYNXEO | WW-YYYY

Example of cable marking from 16 mm<sup>2</sup>: FLAMEX EN 50264-3-1 1800V (mm<sup>2</sup>) M | LYNXEO | WW-YYYY

## GUIDE TO USE

- Cabling rules are given in EN 50343 and EN 50355
- Permissible current carrying capacities: values and calculation method are given in EN 50343
- Bending radius:
  - o Static use: 3 x outer cable diameter (5 x D if D > 10mm)
  - o For installation and occasional movements: 6 x outer cable diameter



Conductor flexibility  
Flexible stranded



Halogen free  
EN 50267-2-1 & EN 60684-2



Rated Voltage U<sub>0</sub>/U<sub>m</sub>  
(Um)  
1.8 / 3 (3.6) kV



Flame retardant  
EN 60332-1-2



Fire retardant  
EN IEC 60332-3-24  
(cat C); EN IEC 60332-3-25  
(EN50305)



Smoke density  
-



Gases toxicity  
EN 50305-9.2



Operating temp.  
-40 ... 90 °C

### CHARACTERISTICS

#### Construction characteristics

Conductor material	Tinned copper
Conductor flexibility	Flexible stranded
Insulation	-
Halogen free	EN 50267-2-1 & EN 60684-2

#### Dimensional characteristics

Conductor cross-section	1 mm <sup>2</sup>
Minimum outer diameter	2.7 mm
Maximum outer diameter	2.9 mm
Approximate weight	16 kg/km
Conductor diameter	- mm

#### Electrical characteristics

Rated Voltage U <sub>0</sub> /U (Um)	1.8 / 3 (3.6) kV
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#### Usage characteristics

Flame retardant	EN 60332-1-2
Fire retardant	EN IEC 60332-3-24 (cat C); EN IEC 60332-3-25 (EN50305)
Smoke density	-
Gases toxicity	EN 50305-9.2
Operating temperature, range	-40 ... 90 °C
Chemical resistance	-
Ozone resistance	Yes
U.V resistance	Yes
Max. conductor temperature in service	90 °C
Short-circuit max. conductor temperature	250 °C



Conductor flexibility  
Flexible stranded



Halogen free  
EN 50267-2-1 & EN 60684-2



Rated Voltage U<sub>0</sub>/U (Um)  
1.8 / 3 (3.6) kV



Flame retardant  
EN 60332-1-2



Fire retardant  
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Smoke density  
-



Gases toxicity  
EN 50305-9.2



Operating temp.  
-40 ... 90 °C