



**Reference:** 10227377  
**EAN 13:** 3427650135819

## CONTACT

Markets and Products Information  
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## HIGH TEMPERATURE EXTRA-FLEXIBLE POWER CABLES

FLAMEX® EN 50382-2 FX power cables are designed with extra flexible conductors for easier installation. Able to withstand higher operating temperatures, these silicone-based cables allow to save cable weight.

## STANDARDS

**Product** EN 45545-2 (HL3); EN 50382-2; IEC 60228

## DESIGN

### 1. Conductor

Extra flexible class 6 copper according to IEC 60228  
 - tinned copper for 120°C Class  
 - plain copper for 150°C Class  
 Separator: Unweaved tape

### 2. Insulation

Cross-linked silicone type EI 111 according to EN 50382-1  
 Colour: black outer layer

Example of marking: FLAMEX SI - EN 50382-2 - Voltage rate (1800V or 3600V)  
 - cross-section mm<sup>2</sup> - FX - temperature class (150°C) - LYNXEO 279 - week/year

## 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:
  - Static use: 4 x outer cable diameter
  - For installation and occasional movements: 6 x outer cable diameter
- Pulling tensile force (dynamic) during installation: 50 N/mm<sup>2</sup> of copper size
- Mechanical static tensile force: 15N/mm<sup>2</sup> of copper size



Conductor flexibility  
**Extra-flexible**  
 class 6



Halogen free  
 EN 60754-1 & EN  
 60684-2



Rated Voltage U<sub>o</sub>/U  
 (Um)  
 3.6 / 6 (7.2) kV



Flame retardant  
 EN 60332-1-2



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



Smoke density  
 EN/IEC 61034-2



Gases toxicity  
 EN 50305-9.2



Operating temp.  
 -50 ... 120 °C

**CHARACTERISTICS****Construction characteristics**

Conductor material	Plain copper
Conductor flexibility	Extra-flexible class 6
Insulation	High temperature silicone
Halogen free	EN 60754-1 & EN 60684-2

**Dimensional characteristics**

Conductor cross-section	185 mm <sup>2</sup>
Conductor diameter	17.5 mm
Nominal outer diameter	24.6 mm
Minimum outer diameter	22.6 mm
Maximum outer diameter	26.5 mm
Approximate weight	1839 kg/km

**Electrical characteristics**

Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> )	3.6 / 6 (7.2) 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	EN/IEC 61034-2
Gases toxicity	EN 50305-9.2
Operating temperature, range	-50 ... 120 °C
Max. conductor temperature in service	150 °C
Overload maximum core temperature	170 °C
Chemical resistance	Good