



**Reference:** 10263132  
**EAN 13:** 3427580739354

## 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 tensible force (dynamic) during installation: 50 N/mm<sup>2</sup> of copper size
- Mechanical static tensible 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>0</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 | 240 mm <sup>2</sup> |
| Conductor diameter      | 20.1 mm             |
| Nominal outer diameter  | 28.3 mm             |
| Minimum outer diameter  | 25.4 mm             |
| Maximum outer diameter  | 29.8 mm             |
| Approximate weight      | 2353 kg/km          |

**Electrical characteristics**

|   |                  |
|---|------------------|
| Rated Voltage U <sub>o</sub> /U (U <sub>m</sub> ) | 3.6 / 6 (7.2) kV |
|---|------------------|

**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   |