FLAMEX® EN 50382-2 FX

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 mm² - 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/mm² of copper size
- Mechanical static tensible force: 15N/mm² of copper size

CONTACT

Markets and Products Information
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CHARACTERISTICS

Construction characteristics	
Conductor material	Plain copper
Conductor flexibility	Extra-flexible class 6

Conductor flexibility **Extra-flexible class 6**

Halogen free **EN 60754-1 & EN 60684-2**

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**

Max.conductor temp.in service **150 °C**

FLAMEX® EN 50382-2 FX

Construction characteristics	
Insulation	High temperature silicone
Halogen free	EN 60754-1 & EN 60684-2
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

Conductor flexibility
Extra-flexible class 6

Halogen free
EN 60754-1 & EN 60684-2

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

Max.conductor temp.in service
150 °C

FLAMEX® SI EN 50382-2 FX 1800V 150°C

Reference	Cross section [mm²]	Conductor diam. [mm]	Nom. outer diam. [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
10263100	50	9.2	14.4	13.5	15.8	545
10263101	70	11.0	16.4	15.0	17.8	747
10263102	95	12.5	18.3	17.0	19.9	973
10227163	120	14.2	20.0	18.6	21.7	1212
10263103	150	15.8	22.5	20.1	23.5	1463
10263125	185	18.2	23.8	22.1	25.4	1787
10227162	240	20.1	26.7	24.1	28.2	2270

FLAMEX® SI EN 50382-2 FX 3600V 150°C

Reference	Cross section [mm²]	Conductor diam. [mm]	Nom. outer diam. [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
10263127	50	9.2	15.7	14.4	16.9	578
10263128	70	11.0	17.3	16.1	18.9	784
10263129	95	12.5	18.7	17.5	20.5	998
10263130	120	14.2	21.0	19.3	22.6	1247
10263131	150	15.8	22.3	20.8	24.4	1502
10227377	185	17.5	24.6	22.6	26.5	1839
10263132	240	20.1	28.3	25.4	29.8	2353