



CONTACT

Markets and Products Information
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FIRE RESISTANT HIGH TEMPERATURE EXTRA-FLEXIBLE POWER CABLES

FLAMEX® FR TYPE EN 50382 - 2 power cables maintain circuit integrity in case of fire (according to IEC 60331 - 4 for 90 minutes) and are fire retardant, low smoke and halogen-free satisfying performance requirements from EN 45545 - 2. Able to withstand higher operating temperatures, these silicone-based cables allow to save 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

2. Insulation

Fire barrier

Cross-linked silicone compound type EI 111 according to EN 50382 - 1

Colour: black outer layer

Example of marking: FLAMEX SI - FR - Type 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 tensile force (dynamic) during installation: 50 N/mm² of copper size
- Mechanical static tensile force: 15N/mm² of copper size



Conductor flexibility

6



Halogen free
 EN 60754 - 1 & EN 60684 - 2



Uo/U
 (Um)
 3.6 / 6 (7.2) kV



Fire resistant
 prIEC 60331 - 4



EN 60332 - 1 - 2



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



EN/IEC 61034 - 2



가
 EN 50305 - 9.2

CHARACTERISTICS

Conductor flexibility	6
Halogen free	High temperature silicone EN 60754 - 1 & EN 60684 - 2
Number of wires per conductor	240 mm ²
Wire size	-
Nominal outer diameter	21.4 mm
Minimum outer diameter	29.0 mm
Maximum outer diameter	26.0 mm
()	29.8 mm
	2679 kg/km
	- mm
U _o /U (U _m)	3.6 / 6 (7.2) kV
Fire resistant	prIEC 60331 - 4 EN 60332 - 1 - 2
Fire retardant	EN IEC 60332 - 3 - 24 (cat C); EN IEC 60332 - 3 - 25 (EN50305)
가	EN/IEC 61034 - 2
操作度范	EN 50305 - 9.2
Max. conductor temperature in service	- 50 ... 150 °C
Chemical resistance	170 °C
	Good