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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 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



EN 60332 - 1 - 2



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



EN/IEC 61034 - 2



기
EN 50305 - 9.2



Operating temp.
-50 ... 120 ° C

CHARACTERISTICS

Conductor flexibility	6
Halogen free	High temperature silicone EN 60754 - 1 & EN 60684 - 2
	70 mm ²
	11.0 mm
Nominal outer diameter	17.3 mm
Minimum outer diameter	16.1 mm
Maximum outer diameter	18.9 mm
()	784 kg/km
U ₀ /U (U _m)	3.6 / 6 (7.2) kV
Fire retardant	EN 60332 - 1 - 2 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 ... 120 ° C
Overload maximum core temperature	150 ° C
Chemical resistance	170 ° C
	Good