



Reference: 79463614

CONTACT

Markets and Products Information
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FIRE RESISTANT POWER CABLES

FLAMEX® EN50264 - 3 - 1 FR flexible power cables maintain circuit integrity in case of fire (according to EN 50200 for 90 minutes) and are fire retardant, low smoke and halogen-free satisfying performance requirements of EN 45545 - 2 - HL3. On top of that, FLAMEX® cables withstand tough working conditions (oil, ozone, temperature variations, etc.).

STANDARDS

Product EN 50264 - 3 - 1; EN 45545 - HL3; IEC 60228

Test EN 50200; IEC 60331 - 1 or 2

DESIGN

1. Conductor

Flexible stranded tinned copper, class 5 acc. to IEC 60228
Mineral tape

2. Insulation

Cross-linked compound type EI 109 acc. to EN 50264 - 1
Oil, diesel, ozone and UV resistant
Colour: black

Example of marking: FLAMEX type EN 50264 - 3 - 1 FR 600 V mm² M (N)
MHXAF - FR 0,6/1kV | LYNXEO | WW - YYYY

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: 3 x outer cable diameter if D ≤ 10mm / 5 x outer cable diameter if D > 10mm
 - For installation and occasional movements: 10 x outer cable diameter



Conductor flexibility 5



Halogen free EN 60754 - 1 & EN 60684 - 2



Uo/U (Um) 0.6/ 1 (1.2) kV



Fire resistant IEC 60331 - 1 or - 2



IEC 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	Tin plated copper
	5
Halogen free	Cross - linked compound
Insulation colour	EN 60754 - 1 & EN 60684 - 2
	Black
	185 mm ²
Minimum outer diameter	21.5 mm
Maximum outer diameter	22.1 mm
()	1710 kg/km
	- mm
U ₀ /U (U _m)	0.6/ 1 (1.2) kV
Fire resistant	IEC 60331 - 1 or - 2
	IEC 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
操作度范	- 40 ... 90 ° C
Max. conductor temperature in service	90 ° C
Overload maximum core temperature	120 ° C
Chemical resistance	Good
Ozone resistance	Yes
U.V resistance	Yes
Short - circuit max. conductor temperature	200 ° C