



CONTACT

Markets and Products Information
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SINGLE CORE POWER CABLES

FLAMEX® EN 50264-3-1 1800V M power cables are used for fixed and protected installations. This product range is recommended for narrow spaces where an optimal bending radius is required. FLAMEX® cables are designed to withstand tough working conditions (oil, ozone, temperature variation, etc.). 120°C conductor temperature is allowed for a 20,000 hours cumulative working time.

STANDARDS

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

DESIGN

1. Conductor

Flexible stranded tinned copper, class 5 acc. to IEC 60228
Optional halogen-free separator 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 EN 50264-3-1 1800 V (mm²) M ILYNXEO I 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 (5 x D if D>10mm)
 - For installation and occasional movements: 6 x outer cable diameter



Conductor flexibility
Flexible class 5



Halogen free
EN 60754-1 & EN 60684-2



Rated Voltage U_o/U_m
(Um)
1.8 / 3 (3.6) kV



Flame retardant
IEC 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.
-40 ... 90 °C

CHARACTERISTICS

Construction characteristics

Conductor material	Tin plated copper
Conductor flexibility	Flexible class 5
Insulation	Cross-linked compound
Halogen free	EN 60754-1 & EN 60684-2

Electrical characteristics

Rated Voltage U _o /U (U _m)	1.8 / 3 (3.6) kV
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Usage characteristics

Flame retardant	IEC 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	-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

PRODUCTS LIST

Reference	Cross section [mm²]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
79462320	1.5	5.7	5.9	50
79462420	2.5	6.05	6.35	63
79462520	4	6.55	6.85	78
79462620	6	7.05	7.35	99
79462720	10	7.9	8.3	146
79462820	16	9.0	9.4	213
79462920	25	10.3	10.9	301
79463020	35	11.4	12.0	385
79463120	50	13.3	13.9	538
79463220	70	15.3	15.9	740
79463320	95	17.0	17.6	957
79463420	120	19.3	19.9	1219
79463520	150	21.6	22.2	1525
79463620	185	23.5	24.1	1817
79463720	240	26.6	27.2	2347
79463820	300	29.3	30.1	2938