



Reference: 79463820

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:
 - o Static use: 3 x outer cable diameter (5 x D if D>10mm)
 - o 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 U₀/U
(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 |

Dimensional characteristics

| | |
|-------------------------|---------------------|
| Conductor cross-section | 300 mm ² |
| Minimum outer diameter | 29.3 mm |
| Maximum outer diameter | 30.1 mm |
| Approximate weight | 2938 kg/km |
| Conductor diameter | - mm |

Electrical characteristics

| | |
|---|------------------|
| Rated Voltage U ₀ /U (U _m) | 1.8 / 3 (3.6) kV |
|---|------------------|

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 | - °C |
| Chemical resistance | Good |
| Ozone resistance | Yes |
| U.V resistance | Yes |
| Short-circuit max. conductor temperature | 200 °C |