



Reference: 79462701

CONTACT

Markets and Products Information
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SINGLE CORE POWER CABLES

FLAMEX® EN 50264-3-1 600V 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 50264-3-1
 Oil, diesel, ozone and UV resistant
 Colour: black (or optionally green/yellow for earthing wires)

Example of marking: FLAMEX EN 50264-3-1 600V mm² M (N)HXAF 0,6/1kV I NEXANS I WW-YYYY



Conductor flexibility
Flexible class 5



Halogen free
EN 60754-1 & EN 60684-2



Rated Voltage U₀/U
(Um)
0.6/ 1 (1.2) 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 | 10 mm ² |
| Minimum outer diameter | 5.5 mm |
| Maximum outer diameter | 5.9 mm |
| Approximate weight | 102 kg/km |
| Conductor diameter | - mm |

Electrical characteristics

| | |
|---|-----------------|
| Rated Voltage U ₀ /U (U _m) | 0.6/ 1 (1.2) 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 |