



Reference: 79461720

CONTACT

Markets and Products Information
rollingstock.business@lynxeogroup.com

UNSCREENED SINGLE CORE CABLE

FLAMEX® 4GKW 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 45545-2 (HL3); EN 50264-3-1; 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 cable marking up to 10 mm²: FLAMEX type EN 50264-3-1 1800V (mm²) M 4GKW | LYNXEO | WW-YYYY

Example of cable marking from 16 mm²: FLAMEX EN 50264-3-1 1800V (mm²) M | 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:
 - 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 stranded



Halogen free
EN 50267-2-1 & EN 60684-2



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



Flame retardant
EN 60332-1-2



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



Smoke density
-



Gases toxicity
EN 50305-9.2



Operating temp.
-40 ... 90 °C

CHARACTERISTICS

Construction characteristics

| | |
|-----------------------|---------------------------|
| Conductor material | Tinned copper |
| Conductor flexibility | Flexible stranded |
| Insulation | - |
| Halogen free | EN 50267-2-1 & EN 60684-2 |

Dimensional characteristics

| | |
|-------------------------|--------------------|
| Conductor cross-section | 10 mm ² |
| Minimum outer diameter | 6.1 mm |
| Maximum outer diameter | 6.5 mm |
| Approximate weight | 110 kg/km |
| Conductor diameter | - mm |

Electrical characteristics

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

Usage characteristics

| | |
|--|--|
| Flame retardant | EN 60332-1-2 |
| Fire retardant | EN IEC 60332-3-24 (cat C); EN IEC 60332-3-25 (EN50305) |
| Smoke density | - |
| Gases toxicity | EN 50305-9.2 |
| Operating temperature, range | -40 ... 90 °C |
| Chemical resistance | - |
| Ozone resistance | Yes |
| U.V resistance | Yes |
| Max. conductor temperature in service | 90 °C |
| Short-circuit max. conductor temperature | 250 °C |



Conductor flexibility
Flexible stranded



Halogen free
EN 50267-2-1 & EN 60684-2



Rated Voltage U₀/U (Um)
1.8 / 3 (3.6) kV



Flame retardant
EN 60332-1-2



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



Smoke density
-



Gases toxicity
EN 50305-9.2



Operating temp.
-40 ... 90 °C