



Reference: 79463120

CONTACT

Markets and Products Information
rollingstock.business@lynxeogroup.com

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
(U_m)
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	50 mm ²
Minimum outer diameter	13.3 mm
Maximum outer diameter	13.9 mm
Approximate weight	538 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