



Reference: 79462601

CONTACT

Markets and Products Information
rollingstock.business@lynxeogroup.com

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	6 mm ²
Minimum outer diameter	4.4 mm
Maximum outer diameter	4.8 mm
Approximate weight	62 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