



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 LYNXEO 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
 - o For installation and occasional movements: 5 x outer cable diameter



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

Electrical characteristics

Rated Voltage U _o /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	120 °C
Chemical resistance	Good
Ozone resistance	Yes
U.V resistance	Yes

PRODUCTS LIST

Reference	Cross section [mm ²]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
79462201	1	2.5	2.7	14
79462301	1.5	2.8	3.2	20
79462401	2.5	3.2	3.6	29
79462501	4	3.9	4.3	44
79462601	6	4.4	4.8	62
79462701	10	5.5	5.9	102
79462801	16	6.5	7.1	161
79462901	25	8.4	9.0	248
79463001	35	9.4	10.0	326
79463101	50	11.3	11.9	477
79463201	70	13.2	13.8	666
79463301	95	15.0	15.6	868
79463401	120	16.7	17.3	1106
79463501	150	18.7	19.3	1390
79463601	185	21.0	21.6	1689
79463701	240	23.8	24.6	2178