



### CONTACT

Markets and Products Information  
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## SHEATHED SINGLE CORE POWER CABLES

FLAMEX® EN 50264-3-1 1800V MM 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 50264-1.  
 Colour: grey

#### 3. Sheath

Cross-linked compound type EM 104 acc. to 50264-1  
 Oil, diesel, ozone and UV resistant  
 Colour: black

Example of marking: FLAMEX EN 50264-3-1 1800V (mm<sup>2</sup>) MM NSHXAF0E 1.8/3 kV | 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 class 5



Halogen free  
 EN 60754-1 & EN 60684-2



Rated Voltage U<sub>0</sub>/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  
 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
Outer sheath	Cross-linked compound
Halogen free	EN 60754-1 & EN 60684-2

## Electrical characteristics

Rated Voltage U <sub>0</sub> /U (Um)	1.8 / 3 (3.6) kV
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## 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	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	Excellent
Ozone resistance	Yes
U.V resistance	Yes

## PRODUCTS LIST

Reference	Cross section [mm <sup>2</sup> ]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
79462324	1.5	5.7	6.0	50
79462424	2.5	6.25	6.55	60
79462524	4	6.8	7.2	80
79462624	6	7.4	7.8	100
79462724	10	8.7	9.3	160
79462824	16	9.8	10.6	230
79462924	25	12.3	13.1	340
79463024	35	13.3	14.1	450
79463124	50	14.6	15.6	600
79463224	70	16.7	17.7	820
79463324	95	19.2	20.2	1050
79463424	120	20.8	21.8	1300
79463524	150	22.9	23.9	1600
79463624	185	25.5	26.5	1950
79463724	240	27.9	29.3	2500
79463824	300	30.6	32.0	3100