



Reference: 79463024

### 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  
NSHXAFOE 1.8/3 kV 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:
  - Static use: 3 x outer cable diameter (5 x D if D > 10mm)
  - For installation and occasional movements: 6 x outer cable diameter



Conductor flexibility 5



Halogen free  
EN 60754 - 1 & EN 60684 - 2



Uo/U  
1.8 / 3 (3.6) kV



EN 60332 - 1 - 2



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



EN/IEC 61034 - 2



가  
EN 50305 - 9.2



Operating temp.  
- 40 ... 90 °C

## CHARACTERISTICS

Conductor flexibility	Tin plated copper	
	5	
Halogen free	Cross - linked compound	
	Cross - linked compound	
	EN 60754 - 1 & EN 60684 - 2	
Minimum outer diameter Maximum outer diameter (      )	35 mm <sup>2</sup>	
	13.3 mm	
	14.1 mm	
	450 kg/km	
U <sub>o</sub> /U (U <sub>m</sub> )	- mm	
	1.8 / 3 (3.6) kV	
Fire retardant	EN 60332 - 1 - 2	
	EN IEC 60332 - 3 - 24 (cat C); EN IEC 60332 - 3 - 25 (EN50305)	
가 操作度范	EN/IEC 61034 - 2	
	EN 50305 - 9.2	
Max. conductor temperature in service	- 40 ... 90 ° C	
Overload maximum core temperature	90 ° C	
Chemical resistance	- ° C	
Ozone resistance	Excellent	
U.V resistance	Yes	
Short - circuit max. conductor temperature	Yes	
	200 ° C	