



Reference: 79465254

### CONTACT

Markets and Products Information  
 rollingstock.business@lynxeogroup.com

## MULTICORES POWER CABLES

FLAMEX® EN 50264-3-2 MM multicores power and control 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 50264-3-2; 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

#### 3. Outer sheath

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

Example of marking: FLAMEX EN 50264-3-2 600V n X (G) ... (mm²) MM (N)  
 HXSLOE | 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:
  - Static use: 4 x outer cable diameter
  - 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 U<sub>0</sub>/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
Outer sheath	Cross-linked compound
Halogen free	EN 60754-1 & EN 60684-2
With Green/Yellow core	No

**Dimensional characteristics**

Number of cores	4
Conductor cross-section	1.5 mm <sup>2</sup>
Minimum outer diameter	8.5 mm
Maximum outer diameter	9.2 mm
Approximate weight	127 kg/km
Conductor diameter	- mm

**Electrical characteristics**

Rated Voltage U <sub>o</sub> /U (Um)	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
Chemical resistance	Excellent
Ozone resistance	Yes
U.V resistance	Yes
Max. conductor temperature in service	90 °C
Short-circuit max. conductor temperature	200 °C