



Reference: 79466354

### CONTACT

Markets and Products Information  
 rollingstock.business@lynxeogroup.com

## SHIELDED MULTICORES POWER CABLES

FLAMEX® EN 50264-3-2 600V MMS multicores shielded power and control cables are used for protected installations where enhanced electrical screening (EMC) is required. This product range is recommended for installations and connections in 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  
 Colour: black (or green/yellow if cable type is G)  
 Assembly (option): halogen free foil could be served

#### 3. Screen

Copper wire braid acc. to EN 50264-3-2, halogen-free separator

#### 4. 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 (or G) ... (mm<sup>2</sup>) MM S (N)  
 HXCSLOE | 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: 8 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  
 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



Electro magnetic  
 interference  
 resistance

**CHARACTERISTICS****Construction characteristics**

Conductor material	Tin plated copper
Conductor flexibility	Flexible class 5
Insulation	Cross-linked compound
Screen	Tinned copper braid
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	2.5 mm <sup>2</sup>
Minimum outer diameter	10.7 mm
Maximum outer diameter	11.7 mm
Approximate weight	205 kg/km
Conductor diameter	- mm

**Electrical characteristics**

Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> )	0.6/ 1 (1.2) kV
---	-----------------

**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
Electro magnetic interference resistance	-
Operating temperature, range	-40 ... 90 °C
Max. conductor temperature in service	90 °C
Overload maximum core temperature	- °C
Chemical resistance	Excellent
Ozone resistance	Yes
U.V resistance	Yes
Short-circuit max. conductor temperature	200 °C