



Reference: 79463231

**CONTACT**Markets and Products Information  
rollingstock.business@lynxgroup.com**SHIELDED SINGLE CORE POWER CABLES**

FLAMEX® EN 50264 - 3 - 1 3600V MMS shielded power 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 - 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 - 1  
Colour: black or grey
3. Screen  
Halogen - free foil, tinned copper wire braid, 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 - 1 3600V (mm<sup>2</sup>) MM (N)  
SHXAFCOE 3.6/6 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: 5 x outer cable diameter (6 x D if D > 10mm)
  - For installation and occasional movements: 10 x outer cable diameter

Conductor  
flexibility 5Halogen free  
EN 60754 - 1 & EN  
60684 - 2Uo/U  
(Um)  
3.6 / 6 (7.2) kV

IEC 60332 - 1 - 2

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

EN/IEC 61034 - 2

7a  
EN 50305 - 9.2Electro magnetic  
interference  
resistance  
Yes

## CHARACTERISTICS

Conductor flexibility	Tin plated copper
	5
	Cross - linked compound
	Cross - linked compound
Halogen free	EN 60754 - 1 & EN 60684 - 2
Minimum outer diameter	70 mm <sup>2</sup>
	20.5 mm
Maximum outer diameter ( )	21.1 mm
	970 kg/km
Braid section	10 mm <sup>2</sup>
	1
Uo/U (Um)	3.6 / 6 (7.2) kV
Fire retardant	IEC 60332 - 1 - 2
	EN IEC 60332 - 3 - 24 (cat C); EN IEC 60332 - 3 - 25 (EN50305)
가	EN/IEC 61034 - 2
	EN 50305 - 9.2
Electro magnetic interference resistance	Yes
操作度范	- 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
Fire load	1.3 kWh/m
Short - circuit max. conductor temperature	200 ° C