



Reference: 79462530

CONTACT

Markets and Products Information
rollingstock.business@lynxeogroup.com

SHEATHED SINGLE CORE POWER CABLES

FLAMEX® EN 50264-3-1 3600V 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
Conductor screen

2. Insulation

Cross-linked compound type EI 109 acc. to EN 50264-1
Colour: grey

3. 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 (mm²) MM
NSHXAFOE 3.6/6kV | 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 (5 x D if D>10mm)
 - For installation and occasional movements: 10 x outer cable diameter



Conductor flexibility
Flexible class 5



Halogen free
EN 60754-1 & EN 60684-2



Rated Voltage U_o/U_m
(Um)
3.6 / 6 (7.2) 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



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

Dimensional characteristics

Conductor cross-section	4 mm ²
Minimum outer diameter	9.6 mm
Maximum outer diameter	10.0 mm
Approximate weight	130 kg/km
Conductor diameter	- mm

Electrical characteristics

Rated Voltage U ₀ /U (U _m)	3.6 / 6 (7.2) 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
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