



Reference: 79463631

CONTACTMarkets 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 (mm²) 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 - 2U_o/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
	185 mm ²
Minimum outer diameter	28.4 mm
Maximum outer diameter	29.4 mm
()	2270 kg/km
Braid section	16 mm ²
	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	2.7 kWh/m
Short - circuit max. conductor temperature	200 ° C