



CONTACT

Markets and Products Information
rollingstock.business@lynxeogroup.com

UNSCREENED SINGLE CORE CABLE

FLAMEX® 4GKW 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 45545-2 (HL3); EN 50264-3-1; 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
Oil, diesel, ozone and UV resistant
Colour: black

Example of cable marking up to 10 mm²: FLAMEX type EN 50264-3-1 1800V (mm²) M 4GKW | LYNXEO | WW-YYYY

Example of cable marking from 16 mm²: FLAMEX EN 50264-3-1 1800V (mm²) M | 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:
 - o Static use: 3 x outer cable diameter (5 x D if D > 10mm)
 - o For installation and occasional movements: 6 x outer cable diameter



Conductor flexibility
Flexible stranded



Halogen free
EN 50267-2-1 & EN 60684-2



Rated Voltage U_o/U_m
(Um)
1.8 / 3 (3.6) 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	Tinned copper
Conductor flexibility	Flexible stranded
Insulation	Cross-linked compound
Halogen free	EN 50267-2-1 & EN 60684-2








Electrical characteristics



Rated Voltage U _o /U (Um)	1.8 / 3 (3.6) 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
Chemical resistance	Good
Ozone resistance	Yes
U.V resistance	Yes

PRODUCT LIST

Reference	Country Ref.	Name	Conductor cross-section [mm ²]	Minimum outer diameter [mm]	Maximum outer diameter [mm]
 79461320	-	FLAMEX 4GKW 1.8/3kV 1x1.5	1.5	3.1	3.3
 79461520	-	FLAMEX 4GKW 1.8/3kV 1x4	4	4.35	4.65
 79461620	-	FLAMEX 4GKW 1.8/3kV 1x6	6	4.95	5.25
 79461720	-	FLAMEX 4GKW 1.8/3kV 1x10	10	6.1	6.5
 79461820	-	FLAMEX 4GKW 1.8/3kV 1x16	16	8.1	8.5
 79461420	-	FLAMEX 4GKW 1.8/3kV 1x2.5	2.5	3.55	3.85
 79461220	-	FLAMEX 4GKW 1.8/3kV 1x1	1	2.7	2.9

 = Make to order,  = In stock,



Conductor flexibility
Flexible stranded



Halogen free
EN 50267-2-1 & EN 60684-2



Rated Voltage U_o/U (Um)
1.8 / 3 (3.6) 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