



### CONTACT

Markets and Products Information  
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## SHIELDED SINGLE CORE POWER CABLES

FLAMEX® EN 50264 - 3 - 1 1800V 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
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 1800V (mm<sup>2</sup>) MM S (N)  
 SHXAFCOE 1.8/3 kV | 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: 5 x outer cable diameter (6 x D if D > 10mm)
  - For installation and occasional movements: 10 x outer cable diameter



Conductor flexibility 5



Halogen free EN 60754 - 1 & EN 60684 - 2



Uo/U (Um) 1.8 / 3 (3.6) kV



EN 60332 - 1 - 2



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



EN/IEC 61034 - 2



가 EN 50305 - 9.2



Electro magnetic interference resistance Yes

### CHARACTERISTICS

Conductor flexibility	Tin plated copper 5
	Cross - linked compound
Halogen free	Cross - linked compound EN 60754 - 1 & EN 60684 - 2
U <sub>0</sub> /U (U <sub>m</sub> )	1.8 / 3 (3.6) kV
Fire retardant	EN 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



Conductor flexibility 5



Halogen free  
EN 60754 - 1 & EN 60684 - 2



U<sub>0</sub>/U  
(U<sub>m</sub>)  
1.8 / 3 (3.6) kV



EN 60332 - 1 - 2



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



EN/IEC 61034 - 2



가  
EN 50305 - 9.2



Electro magnetic interference resistance  
Yes

## PRODUCTS LIST

Reference	[mm <sup>2</sup> ]	Braid section [mm <sup>2</sup> ]	Min. outer diam. [mm]	Max. outer diam. [mm]	( [kg/km] )
79462722	10	6	10.1	10.7	208
79462822	16	6	11.5	12.1	295
79462922	25	6	13.5	14.1	419
79463022	35	10	14.9	15.5	539
79463122	50	10	16.4	17.2	707
79463222	70	10	17.5	18.5	921
79463322	95	10	20.6	21.6	1181
79463422	120	10	21.9	22.9	1430
79463522	150	10	24.1	25.1	1751
79463622	185	10	25.9	26.9	2053