



Reference: 79463522

## 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



기  
EN 50305 - 9.2



Electro magnetic interference resistance  
Yes

## CHARACTERISTICS

|  |   |
|--|---|
| Conductor flexibility                      | Tin plated copper<br>5  |
|  | Cross - linked compound   |
| Halogen free                               | Cross - linked compound<br>EN 60754 - 1 & EN 60684 - 2                                |
| Minimum outer diameter                     | 150 mm <sup>2</sup><br>24.1 mm  |
| Maximum outer diameter                     | 25.1 mm   |
| Braid section                              | 10 mm <sup>2</sup>  |
| ( )  | 1751 kg/km  |
|  | 1   |
| U <sub>o</sub> /U (U <sub>m</sub> )        | 1.8 / 3 (3.6) kV  |
| Fire retardant                             | EN 60332 - 1 - 2<br>EN IEC 60332 - 3 - 24 (cat C); EN IEC 60332 - 3 - 25<br>(EN50305) |
| 가  | EN/IEC 61034 - 2<br>EN 50305 - 9.2  |
| Electro magnetic interference resistance   | Yes   |
| 操作度范                                       | - 40 ... 90 ° C   |
| Max. conductor temperature in service      | - ° C   |
| Overload maximum core temperature          | - ° C   |
| Chemical resistance                        | Excellent   |
| Ozone resistance                           | Yes   |
| U.V resistance                             | Yes   |
| Fire load                                  | 2 kWh/m   |
| Short - circuit max. conductor temperature | 200 ° C   |