



CONTACT

Markets and Products Information
rollingstock.business@lynxeogroup.com

FIRE RESISTANT HIGH TEMPERATURE EXTRA-FLEXIBLE POWER CABLES

FLAMEX® FR TYPE EN 50382-2 power cables maintain circuit integrity in case of fire (according to IEC 60331-4 for 90 minutes) and are fire retardant, low smoke and halogen-free satisfying performance requirements form EN 45545-2. Able to withstand higher operating temperatures, these silicone-based cables allow to save weight.

STANDARDS

Product EN 45545-2 (HL3); EN 50382-2; IEC 60228

DESIGN

1. Conductor

Extra flexible class 6 copper according to IEC 60228

* tinned copper for 120° C Class

* plain copper for 150° C Class

2. Insulation

Fire barrier

Cross-linked silicone compound type EI 111 according to EN 50382-1

Colour: black outer layer

Example of marking: FLAMEX SI-FR - Type EN 50382-2 - Voltage rate (1800V or 3600V) - cross-section mm² - FX - temperature class (150° C) - LYNXEO 279 - week/year

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
 - For installation and occasional movements: 6 x outer cable diameter
- Pulling tensible force (dynamic) during installation: 50 N/mm² of copper size
- Mechanical static tensible force: 15N/mm² of copper size



导线柔软度
超柔软等级6



无卤
EN 60754-1 & EN 60684-2



额定电压U₀/U
1.8 / 3 (3.6) kV



耐火
pr1IEC 60331-4



阻燃 - 火焰
EN 60332-1-2



阻燃
EN IEC 60332-3-24
(cat. C); EN IEC 60332-3-25
(EN50305)



烟密度
EN/IEC 61034-2



气体毒性
EN 50305-9.2

CHARACTERISTICS

结构特性

导体材料	裸铜
导线柔软度	超柔软等级6
绝缘	High temperature silicone
无卤	EN 60754-1 & EN 60684-2

尺寸特性

导线截面	50 mm ²
Number of wires per conductor	-
电线尺寸	- mm
导线直径	9.4 mm
标称外径	14.8 mm
外径最小值	13.9 mm
Maximum outer diameter	15.8 mm
近似重量	547 kg/km
平均护套厚度	- mm

电气特性

额定电压U ₀ /U	1.8 / 3 (3.6) kV
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使用特性

耐火	pr IEC 60331-4
阻燃 - 火焰	EN 60332-1-2
阻燃	EN IEC 60332-3-24 (cat C); EN IEC 60332-3-25 (EN50305)
烟密度	EN/IEC 61034-2
气体毒性	EN 50305-9.2
操作温度范围	-50 ... 150 °C
芯线最高静止温度	170 °C
耐化学物质	好