



CONTACT

Markets and Products Information
rollingstock.business@lynxgroup.com

SHEATHED HIGH TEMPERATURE FLEXIBLE POWER CABLES

FLAMEX® EN 50382-2 FF power cables are designed and dedicated to be used on rolling stock equipment where high operating temperature is required to save cable weight. These sheathed products offer better mechanical protection. Thanks to its high flexibility, these cables with low bending radius are frequently installed on locomotive equipment.

STANDARDS

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

DESIGN

1. Conductor

Flexible class 5 copper according to IEC 60228

- tinned copper for 120° C Class
- plain copper for 150° C Class

Separator: Unweaved tape

2. Insulation

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

3. Outer sheath

Cross-linked silicone type EM 107 according to EN 50382-1

Colour: black outer layer

Example of marking: FLAMEX SI - EN 50382-2 - Voltage rate (1800V or 3600V) - cross-section mm² - FF - temperature class (120° C or 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 tensile force (dynamic) during installation: 50 N/mm² of copper size
- Mechanical static tensile force: 15N/mm² of copper size



导线柔软度
柔软等级5



无卤
EN 60754-1 & EN
60684-2



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
-50 ... 120 ° C



芯线最高静止温度
120 ° C

CHARACTERISTICS

结构特性

导体材料	Tin plated copper
导线柔软度	柔软等级5
绝缘	High temperature silicone
外护套	High temperature silicone
无卤	EN 60754-1 & EN 60684-2

使用特性

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 ... 120 ° C
芯线最高静止温度	120 ° C
Overload maximum core temperature	140 ° C
耐化学物质	好

导线柔软度
柔软等级5无卤
EN 60754-1 & EN
60684-2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
-50 ... 120 ° C芯线最高静止温度
120 ° C

FLAMEX SI EN 50382-2 FF 1800V 120° C

Reference	Cross section [mm ²]	Conductor diam. [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
10260587	50	9.2	15.0	17.5	620
10260586	70	11.0	16.8	19.7	840
10198407	95	12.5	19.0	22.2	1097
10260585	120	14.2	20.8	24.3	1355
10198408	150	15.8	22.3	26.1	1620
10260584	185	17.5	24.5	28.6	1993
10217649	240	20.1	27.1	31.7	2514

FLAMEX SI EN 50382-2 FF 3600V 120° C

Reference	Cross section [mm ²]	Conductor diam. [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
10211468	50	9.2	17.5	20.6	715
10211469	70	11.0	19.2	22.4	936
10211470	95	12.5	20.8	24.3	1176
10211471	120	14.2	22.4	26.2	1428
10211472	150	15.8	24.1	28.2	1712
10211473	185	17.5	26.4	30.9	2106
10211474	240	20.1	29.4	34.4	2667