



CONTACT

Markets and Products Information
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SHIELDED HIGH TEMPERATURE FLEXIBLE POWER CABLES

FLAMEX® EN 50382-2 FFS shielded power cables are used for installations where enhanced electrical screening (EMC) is required. Able to withstand higher operating temperatures, these silicone-based cables allow to save cable weight.

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

2. Insulation

Cross-linked silicone type EI 111 according to EN 50382-1
 Separator: Unweaved tape

3. Screen

Tinned copper wire braid
 Separator: Unweaved tape

4. Outer sheath

Cross-linked silicone type EM 107 according to EN 50382-1
 Colour: black outer layer

Examples of marking: FLAMEX SI - EN 50382-2 - Voltage rate (1800V or 3600V) - cross-section mm² - FFS - temperature class (120° C or 150° C) - Manufacturing n° - LYNXEO 279 - week/year
 DTREN 150056 - EN 50382-2 - 1800V - cross-section mm² - FFS - temperature class (120° C) - Manufacturing N° - 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: 10 x outer cable diameter
 - For installation and occasional movements: 12 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
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)



烟密度
EN/IEC 61034-2



气体毒性
EN 50305-9.2



操作温度
-50 ... 120 ° C



抗电磁干扰
是

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
屏蔽	镀锡铜编织
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)
烟密度	EN/IEC 61034-2
气体毒性	EN 50305-9.2
操作温度范围	-50 ... 120 ° C
抗电磁干扰	是
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
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抗电磁干扰
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FLAMEX® SI EN 50382-2 FFS 1800V 120° C

Reference	Name	Cross section [mm ²]	Conductor diam. [mm]	编织截面 [mm ²]	Nom. outer diam. [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
13117415	FLAMEX DTREN150056 EN 50382-2 1800V 25 FFS 120° C	25	6.4	6.3	14.2	14.0	16.5	434
10275514	FLAMEX DTREN150056 EN 50382-2 1800V 50 FFS 120° C	50	9.2	7.7	17.0	16.5	19.9	656
13117416	FLAMEX DTREN150056 EN 50382-2 1800V 70 FFS 120° C	70	10.8	8.9	19.1	18.0	21.0	945
10263836	FLAMEX DTREN150056 EN 50382-2 1800V 95 FFS 120° C	95	12.7	10.2	21.8	21.4	25.1	1159
10282209	FLAMEX DTREN150056 EN 50382-2 1800V 120 FFS 120° C	120	14.2	11.6	25.3	24.9	27.3	1484
10282210	FLAMEX DTREN150056 EN 50382-2 1800V 150 FFS 120° C	150	15.8	12.6	27.0	26.5	29.9	1745
	FLAMEX DTREN150056 EN 50382-2 1800V 185 FFS 120° C	185	17.5	-	-	28.5	31.9	-
	FLAMEX DTREN150056 EN 50382-2 1800V 240 FFS 120° C	240	20.3	-	-	29.5	34.0	-

FLAMEX® SI EN 50382-2 FFS 3600V 120° C

Reference	Name	Cross section [mm ²]	Conductor diam. [mm]	编织截面 [mm ²]	Nom. outer diam. [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
	FLAMEX SI EN 50382-2 3600V 10 FFS 120° C	10	4.0	9	13.9	13.2	14.9	302
	FLAMEX SI EN 50382-2 3600V 35 FFS 120° C	35	7.8	13	18.5	17.5	19.8	653
10235715	FLAMEX SI EN 50382-2 3600V 50 FFS 120° C	50	9.2	13.3	19.9	17.9	20.5	782
10260429	FLAMEX SI EN 50382-2 3600V 70 FFS 120° C	70	10.8	13.5	21.4	19.2	22.4	1005
10260430	FLAMEX SI EN 50382-2 3600V 95 FFS 120° C	95	12.7	15.8	23.5	20.8	24.3	1251
10260431	FLAMEX SI EN 50382-2 3600V 120 FFS 120° C	120	14.4	16.1	25.2	22.4	26.2	1507
10260432	FLAMEX SI EN 50382-2 3600V 150 FFS 120° C	150	15.7	18.3	26.7	24.1	28.2	1764
10260433	FLAMEX SI EN 50382-2 3600V 185 FFS 120° C	185	16.9	18.7	28.7	26.4	30.9	2154