



## CONTACT

Markets and Products Information  
 rollingstock.business@lynxeogroup.com

## REINFORCED HIGH TEMPERATURE EXTRA-FLEXIBLE POWER CABLES

FLAMEX® EN 50382-2 3600V FXZ power cables are designed with extra flexible conductors and reinforced with textile braid to be used as a jumper cable between vehicles. 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

Extra Flexible class 6 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 with an embedded polyester reinforcement

Colour: black outer layer

Examples of marking:

FLAMEX SI - EN 50382-2 - 3600 V - cross-section mm<sup>2</sup> - FXZ - class temperature (120° C) - LYNXEO 279 - week/year

FLAMEX SI - DTREN 150028 - EN 50382-2 - 3600 V - cross-section mm<sup>2</sup> - FXZ - class temperature (120°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/mm<sup>2</sup> of copper size
- Mechanical static tensible force: 15N/mm<sup>2</sup> of copper size



Flessibilità del conduttore  
 Extra-flessibile classe 6



Senza alogeno  
 EN 60754-1 & EN 60684-2



Tensione nominale U<sub>o</sub>/U (Um)  
 3.6 / 6 (7.2) kV



Ritardante la fiamma  
 EN 60332-1-2



Fuoco ritardante  
 EN IEC 60332-3-24 (cat C); EN IEC 60332-3-25 (EN50305)



Densita' fumo  
 EN/IEC 61034-2



Tossicita' gas  
 EN 50305-9.2



Temperatura Operativa  
 -50 ... 120 °C

## CHARACTERISTICS

## Caratteristiche costruttive

Materiale del conduttore	Rame stagnato
Flessibilità del conduttore	Extra-flessibile classe 6
Isolamento	Silicone ad alta temperatura
Senza alogeno	EN 60754-1 & EN 60684-2

## Caratteristiche elettriche

Tensione nominale U <sub>o</sub> /U (Um)	3.6 / 6 (7.2) kV
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## Caratteristiche d'utilizzo

Ritardante la fiamma	EN 60332-1-2
Fuoco ritardante	EN IEC 60332-3-24 (cat C); EN IEC 60332-3-25 (EN50305)
Densita' fumo	EN/IEC 61034-2
Tossicità gas	EN 50305-9.2
Temperatura Operativa	-50 ... 120 °C
Temperatura massima di servizio del conduttore	120 °C
Overload maximum core temperature	140 °C
Resistenza chimica	Buona



Flessibilità del conduttore  
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EN 50305-9.2



Temperatura Operativa  
-50 ... 120 °C

## FLAMEX SI EN 50382-2 FXZ 3600V 120°C / DTREN150028

Reference	Name	Sezione del conduttore del cavo [mm <sup>2</sup> ]	Diametro nominale del conduttore del cavo [mm]	Diametro esterno nominale del cavo [mm]	Diametro esterno min [mm]	Diametro esterno max [mm]	Peso approssimativo del cavo [kg/km]	Fire load [kWh/m]
10265735	FLAMEX DTREN150028 EN50382 3600V 6 FXZ 120°C	6	3,4	10,3	9,8	11,4	157	0,321
10261352	FLAMEX DTREN150028 EN50382 3600V 25 FXZ 120°C	25	6,9	12,8	11,8	14,6	351	0,391
10265651	FLAMEX DTREN150028 EN50382 3600V 35 FXZ 120°C	35	8,1	14,2	13,6	14,7	452	0,454
10211475	FLAMEX EN 50382-2 3600V 50 FXZ 120°C	50	9,2	15,8	15,6	18,6	680	0,539
10211476	FLAMEX EN 50382-2 3600V 70 FXZ 120°C	70	11,0	17,6	17,3	20,6	935	0,641
10202387	FLAMEX EN 50382-2 3600V 95 FXZ 120°C	95	12,5	19,1	18,7	21,5	1150	0,693
10211477	FLAMEX EN 50382-2 3600V 120 FXZ 120°C	120	14,2	20,8	20,5	24,3	1480	0,768
10211478	FLAMEX EN 50382-2 3600V 150 FXZ 120°C	150	15,8	24,0	22,0	26,1	1800	0,894
10200535	FLAMEX EN 50382-2 3600V 185 FXZ 120°C	185	17,5	24,9	23,8	28,2	2240	0,976
10232560	FLAMEX DTREN150028 EN50382 3600V 240 FXZ 120°C	240	21,4	28,4	26,4	31,5	2629	1,121
10282755	FLAMEX DTREN150028 EN 50382-2 3600V 300 FXZ 120°C	300	23,5	32,0	31,0	34,0	2925	-