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CONTACT

Markets and Products Information
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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 mm² - FXZ - class temperature (120°C) - LYNXEO 279 - week/year

FLAMEX SI - DTREN 150028 - EN 50382-2 - 3600 V - cross-section mm² - 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/mm² of copper size
- Mechanical static tensible force: 15N/mm² of copper size



Conductor flexibility
 Extra-flexible
 class 6



Halogen free
 EN 60754-1 & EN
 60684-2



Rated Voltage U₀/U
 (Um)
 3.6 / 6 (7.2) kV



Flame retardant
 EN 60332-1-2



Fire retardant
 EN IEC 60332-3-24
 (cat C); EN IEC
 60332-3-25
 (EN50305)



Smoke density
 EN/IEC 61034-2



Gases toxicity
 EN 50305-9.2



Operating temp.
 -50 ... 120 °C

CHARACTERISTICS**Construction characteristics**

Conductor material	Tin plated copper
Conductor flexibility	Extra-flexible class 6
Insulation	High temperature silicone
Halogen free	EN 60754-1 & EN 60684-2

Dimensional characteristics

Conductor cross-section	300 mm ²
Conductor diameter	23.5 mm
Nominal outer diameter	32.0 mm
Minimum outer diameter	31.0 mm
Maximum outer diameter	34.0 mm
Approximate weight	2925 kg/km

Electrical characteristics

Rated Voltage U _o /U (U _m)	3.6 / 6 (7.2) kV
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Usage characteristics

Flame retardant	EN 60332-1-2
Fire retardant	EN IEC 60332-3-24 (cat C); EN IEC 60332-3-25 (EN50305)
Smoke density	EN/IEC 61034-2
Gases toxicity	EN 50305-9.2
Operating temperature, range	-50 ... 120 °C
Max. conductor temperature in service	120 °C
Overload maximum core temperature	140 °C
Chemical resistance	Good
Fire load	- kWh/m