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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



Flessibilità del conduttore
 Extra-flessibile classe 6



Senza alogeno
 EN 60754-1 & EN 60684-2



Tensione nominale U_o/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 dimensionali

Sezione del conduttore del cavo	35 mm ²
Diametro nominale del conduttore del cavo	8,1 mm
Diametro esterno nominale del cavo	14,2 mm
Diametro esterno min	13,6 mm
Diametro esterno max	14,7 mm
Peso approssimativo del cavo	452 kg/km

Caratteristiche elettriche

Tensione nominale U _o /U (U _m)	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)
Densità 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
Fire load	0,454 kWh/m