FLAMEX® EN 50382-2 FFS

FLAMEX DTREN150056 EN 50382-2 1800V 150 FFS 120°C

Reference: 10282210
EAN 13: 3427580829437

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


Conductor flexibility
Flexible class 5

Halogen free
EN 60754-1 & EN 60684-2


Rated Voltage Uo/U (Um)
1.8 / 3 (3.6) kV


Flame retardant
EN 60332-1-2


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


Smoke density
EN/IEC 61034-2


Gases toxicity
EN 50305-9.2


Operating temp.
-50 ... 120 °C

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CHARACTERISTICS

Construction characteristics	
Conductor material	Tin plated copper
Conductor flexibility	Flexible class 5
Insulation	High temperature silicone
Screen	Tinned copper braid
Outer sheath	High temperature silicone
Halogen free	EN 60754-1 & EN 60684-2
Dimensional characteristics	
Conductor cross-section	150 mm²
Conductor diameter	15.8 mm
Braid section	12.6 mm²
Nominal outer diameter	27.0 mm
Minimum outer diameter	26.5 mm
Maximum outer diameter	29.9 mm
Approximate weight	1745 kg/km
Electrical characteristics	
Rated Voltage Uo/U (Um)	1.8 / 3 (3.6) kV
Usage characteristics	
Flame retardant	EN 60332-1-2
Fire retardant	EN IEC 60332-3-24 (cat C)
Smoke density	EN/IEC 61034-2
Gases toxicity	EN 50305-9.2
Operating temperature, range	-50 ... 120 °C
Electro magnetic interference resistance	Yes
Max. conductor temperature in service	120 °C
Overload maximum core temperature	140 °C
Chemical resistance	Good