FLAMEX® EN 50382 - 2 FFS

FLAMEX DTREN150056 EN 50382 - 2 1800V 185 FFS 120 ° C

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 mm ² - FFS - temperature class (120 ° C or 150 ° C) - Manufacturing n ° - LYNXEO 279 - week/year
DTREN 150056 - EN 50382 - 2 - 1800V - cross - section mm ² - 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/mm ² of copper size
- Mechanical static tensible force: 15N/mm ² of copper size


Conductor flexibility
소프트 레벨 5

Halogen free
EN 60754 - 1 & EN 60684 - 2


정격전압 Uo/U (Um)
1.8 / 3 (3.6) kV


난연
EN 60332 - 1 - 2


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


연기밀도
EN/IEC 61034 - 2


유독가스
EN 50305 - 9.2


Operating temp.
- 50 ... 120 ° C

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Lynxeo is indicative only and shall not be binding on Lynxeo or be treated as constituting a representation on the part of Lynxeo.

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CHARACTERISTICS

구조적 특성	
도체 재료	Tin plated copper
Conductor flexibility	소프트 레벨 5
절연	High temperature silicone
스크린	주석 도금 구리 브레이드
피복	High temperature silicone
Halogen free	EN 60754 - 1 & EN 60684 - 2
치수	
도체 단면적	185 mm ²
도체지름	17.5 mm
Braid section	- mm ²
Nominal outer diameter	- mm
Minimum outer diameter	28.5 mm
Maximum outer diameter	31.9 mm
무게(근사치)	- kg/km
전기적 특성	
정격전압 Uo/U (Um)	1.8 / 3 (3.6) kV
사용 특성	
난연	EN 60332 - 1 - 2
Fire retardant	EN IEC 60332 - 3 - 24 (cat C)
연기밀도	EN/IEC 61034 - 2
유독가스	EN 50305 - 9.2
操作度范	- 50 ... 120 ° C
Electro magnetic interference resistance	Yes
Max. conductor temperature in service	120 ° C
Overload maximum core temperature	140 ° C
Chemical resistance	Good

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