FLAMEX® EN 50382 - 2 FFXS

FLAMEX DTREN150068 EN 50382 - 2 Type FFXS 1.8/3kV 1x240 120 ° C

CONTACT

Markets and Products Information
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SHIELDED HIGH TEMPERATURE EXTRA - FLEXIBLE POWER CABLES

FLAMEX® EN 50382 - 2 FFXS shielded power cables are designed with extra flexible conductors as per jumper cables. They 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

Application

These cables are designed and dedicated to be used on rolling stock equipment where high temperature is required to save cable weight.

Thanks to its high flexibility, these cables are frequently installed on locomotive equipement with low bending radius.

Construction

- **Conductor**
  Extra flexible class 6 copper according to IEC 60228
  * tinned copper for 120 ° C Class
  * plain copper for 150 ° C Class
- **Insulation**
  Cross - linked silicone type EI 111 according to EN 50382 - 1
- **Separator**
  Unweaved tape
- **Screen**
  Tinned copper wire braid
- **Separator**
  Unweaved tape
- **Outer sheath**
  Cross - linked silicone type EM 107 according to EN 50382 - 1
  Colour: black outer layer

Marking

FLAMEX SI - EN 50382 - 2 - Voltage rate (1800V or 3600V) - cross - section mm ² - FFXS - temperature class (120 ° C or 150 ° C) - NEXANS 279 - week/year

Guide to use

Cabling rules are given according to EN 50343

- Minimum bending radius (static) : 4 x outer cable diameter
- Minimum bending radius (dynamic) : 6 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
- Permissible current carrying capacities : value and calculation method are given in EN 50355

Standards

Construction according to EN 50382 - 2


Conductor flexibility
울트라 소프트 레벨 6

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); EN IEC 60332 - 3 - 25 (EN50305)


연기밀도
EN/IEC 61034 - 2


유독가스
EN 50305 - 9.2


Operating temp.
- 50 ... 120 ° C

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CHARACTERISTICS

구조적 특성	
도체 재료	Tin plated copper
Conductor flexibility	울트라 소프트 레벨 6
절연	High temperature silicone
스크린	주석 도금 구리 브레이드
피복	High temperature silicone
Halogen free	EN 60754 - 1 & EN 60684 - 2
치수	
도체 단면적	240 mm ²
도체지름	21.4 mm
Braid section	- mm ²
Nominal outer diameter	31.6 mm
Minimum outer diameter	30.3 mm
Maximum outer diameter	33.8 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); EN IEC 60332 - 3 - 25 (EN50305)
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