



## 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

### DESIGN

#### 1. Conductor

Extra flexible class 6 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<sup>2</sup> - FFXS - temperature class (120°C or 150°C) - Manufacturing n° - NEXANS 279 - week/year  
 DTREN 150068 - EN 50382-2 - 1800V - cross-section mm<sup>2</sup> - FFXS - temperature class (120°C) - Manufacturing n° - NEXANS 279 - week/year

### CONTACT

Markets and Products Information  
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Conductor flexibility  
**Extra-flexible**  
 class 6



Halogen free  
 EN 60754-1 & EN  
 60684-2



Rated Voltage U<sub>0</sub>/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	Plain copper
Conductor flexibility	Extra-flexible class 6
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	185 mm <sup>2</sup>
Conductor diameter	18.2 mm
Braid section	- mm <sup>2</sup>
Nominal outer diameter	30.0 mm
Minimum outer diameter	28.5 mm
Maximum outer diameter	32.0 mm
Approximate weight	- kg/km

**Electrical characteristics**

Rated Voltage U <sub>o</sub> /U (U <sub>m</sub> )	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
Electro magnetic interference resistance	Yes
Max. conductor temperature in service	150 °C
Overload maximum core temperature	170 °C
Chemical resistance	Good