



Reference: 10260432
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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 tensile force (dynamic) during installation: 50 N/mm² of copper size
- Mechanical static tensile force: 15N/mm² of copper size



Conductor flexibility 5



Halogen free EN 60754 - 1 & EN 60684 - 2



Uo/U (Um) 3.6 / 6 (7.2) kV



EN 60332 - 1 - 2



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



EN/IEC 61034 - 2



71 EN 50305 - 9.2



Operating temp. -50 ... 120 ° C

CHARACTERISTICS

Conductor flexibility	Tin plated copper
	5
	High temperature silicone
Halogen free	High temperature silicone
	EN 60754 - 1 & EN 60684 - 2
	150 mm ²
	15.7 mm
Braid section	18.3 mm ²
Nominal outer diameter	26.7 mm
Minimum outer diameter	24.1 mm
Maximum outer diameter	28.2 mm
()	1764 kg/km
Uo/U (Um)	3.6 / 6 (7.2) kV
Fire retardant	EN 60332 - 1 - 2
	EN IEC 60332 - 3 - 24 (cat C)
	EN/IEC 61034 - 2
가	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