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CONTACT

Markets and Products Information
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SHEATHED HIGH TEMPERATURE FLEXIBLE POWER CABLES

FLAMEX® EN 50382 - 2 FF power cables are designed and dedicated to be used on rolling stock equipment where high operating temperature is required to save cable weight. These sheathed products offer better mechanical protection. Thanks to its high flexibility, these cables with low bending radius are frequently installed on locomotive equipment.

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

Separator: Unweaved tape

2. Insulation

Cross - linked silicone type EI 111 according to EN 50382 - 1

3. Outer sheath

Cross - linked silicone type EM 107 according to EN 50382 - 1

Colour: black outer layer

Example of marking: FLAMEX SI - EN 50382 - 2 - Voltage rate (1800V or 3600V) - cross - section mm² - FF - temperature class (120 ° C or 150 ° C) - 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: 4 x outer cable diameter
 - For installation and occasional movements: 6 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 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 60332 - 3 - 25 (EN50305)



EN/IEC 61034 - 2



기 EN 50305 - 9.2



Operating temp. -50 ... 120 ° C

CHARACTERISTICS

Conductor flexibility	Tin plated copper
	5
Halogen free	High temperature silicone
	High temperature silicone
	EN 60754 - 1 & EN 60684 - 2
Nominal outer diameter	50 mm ²
Minimum outer diameter	9.2 mm
Maximum outer diameter	- mm
()	17.5 mm
	20.6 mm
	715 kg/km
U _o /U (U _m)	3.6 / 6 (7.2) kV
Fire retardant	EN 60332 - 1 - 2
	EN IEC 60332 - 3 - 24 (cat C); EN IEC 60332 - 3 - 25 (EN50305)
가	EN/IEC 61034 - 2
操作度范	EN 50305 - 9.2
Max. conductor temperature in service	- 50 ... 120 ° C
Overload maximum core temperature	120 ° C
Chemical resistance	140 ° C
	Good