FLAMEX® EN 50306-3 & -4

FLAMEX 20 EN 50306-3 8x0.50 MM

Reference: 10283179
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CONTACT

Markets and Products Information
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MULTICORES CONTROL CABLES

Strictly halogen free, FLAMEX EN 50306-3 & -4 control cables combine the advantages of small size, lightweight, high chemical resistance, high mechanical properties. They are recommended for installation in railway vehicles (locomotives, trains, trolleybusses...).

STANDARDS

Product EN 45545-2 (HL3); EN 50264-1

Test EN 50305; EN 50306

DESIGN

1. Conductor
Stranded tinned copper wires
Colour: white, numbered 1 to n

2. Insulation
Thin wall, cross-linked halogen free material acc. EN 50306-2

3. Screen(for screened versions)
Tinned copper braid with optional polyester tape

4. Outer sheath
Cross-linked halogen free material
Colour: black

Example of marking: FLAMEX 239 EN 50306-3 - 300 V - number of cores x cross-section - MM-S-90 - week/year batch number

GUIDE TO USE

- Cabling rules are given in EN 50343
- Permissible current carrying capacities: values and calculation method are given in EN 50343
- Bending radius
  - Static use: 5 x outer diameter
  - For installation and occasional movements: 10 x outer diameter

Conductor flexibility	Halogen free	Rated Voltage Uo/U (Um)	Flame retardant	Fire retardant	Smoke density	Electro magnetic interference resistance	Gases toxicity
Flexible stranded	**EN 60754-1 & EN 60684-2**	**300/500 V**	**EN 60332-1-2**	**EN IEC 60332-3-24 (cat C); EN IEC 60332-3-25 (EN50305)**	**EN/IEC 61034-2**	**No**	**EN 50305-9.2**

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CHARACTERISTICS

Construction characteristics	
Type of cable	EN 50306-3
Conductor material	Tin plated copper
Conductor flexibility	Flexible stranded
Insulation colour	-
Outer sheath	Cross-linked compound
Halogen free	EN 60754-1 & EN 60684-2
Dimensional characteristics	
Conductor cross-section	0.5 mm²
Conductor diameter	1.0 mm
Maximum outer diameter	7.1 mm
Minimum outer diameter	6.1 mm
Approximate weight	88 kg/km
Diameter over insulation, range	1.15 ... 1.45 mm
Number of cores	8
Electrical characteristics	
Rated Voltage Uo/U (Um)	300/500 V
Max. DC resistance of the conductor at 20°C	40.1 Ohm/km
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
Electro magnetic interference resistance	No
Gases toxicity	EN 50305-9.2
Operating temperature, range	-40 ... 90 °C
Max. conductor temperature in service	90 °C
Overload maximum core temperature	120 °C
Chemical resistance	Excellent