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#### CONTACT

Markets and Products Information  
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## CONTROL WIRES

Strictly halogen-free, FLAMEX® control wires combine the advantages of small size, lightweight, high chemical resistance and high mechanical properties. They are recommended for installation in all types of railway vehicles. A 125°C conductor temperature is allowed during 20,000 hours cumulative working time for EN 50306-2.

## STANDARDS

**Product** EN 45545-2 (HL3)

**Test** EN 50305; EN 50306

## DESIGN

### 1. Conductor

Flexible stranded tinned copper

### 2. Insulation

Thin wall halogen-free cross-linked material acc. EN 50306-2  
 Colour: white

Example of marking: FLAMEX 239 EN 50306-2 - 300 V - 1 x cross-section - M - 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: 5 x outer cable diameter
  - For installation and occasional movements: 10 x outer cable diameter



Conductor flexibility  
 Flexible stranded



Halogen free  
 EN 60754-1 & EN 60684-2



Rated Voltage U<sub>o</sub>/U  
 (Um)  
 300 / 300 V



Flame retardant  
 EN 60332-1-2



Fire retardant  
 EN IEC 60332-3-25  
 (EN50305)



Smoke density  
 EN/IEC 61034-2



Gases toxicity  
 EN 50305-9.2



Operating temp.  
 -40 ... 105 °C

**CHARACTERISTICS****Construction characteristics**

Conductor material	Tin plated copper
Conductor flexibility	Flexible stranded
Insulation	Cross-linked compound
Halogen free	EN 60754-1 & EN 60684-2
Insulation colour	White

**Dimensional characteristics**

Conductor cross-section	1 mm <sup>2</sup>
Stranding (No./mm)	
Conductor diameter (mm)	1.30
Minimum cable diameter	1.4 mm
Maximum cable diameter	1.8 mm
Approximate weight	10.5 kg/km

**Electrical characteristics**

Rated Voltage U <sub>o</sub> /U (U <sub>m</sub> )	300 / 300 V
Max. DC resistance of the conductor at 20°C	20 Ohm/km

**Usage characteristics**

Flame retardant	EN 60332-1-2
Fire retardant	EN IEC 60332-3-25 (EN50305)
Smoke density	EN/IEC 61034-2
Gases toxicity	EN 50305-9.2
Operating temperature, range	-40 ... 105 °C
Maximum operating temperature	105 °C
Overload maximum core temperature	125 °C
Chemical resistance	Excellent
Fire load	0.009 kWh/m