



Reference: 13101504
Country Ref.: 2PN299

CONTACT

Markets and Products Information
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FIRE RESISTANT CONTROL WIRES

FLAMEX® Fire Resistant control wires TYPE EN 50306 - 2 maintain circuit integrity in case of fire (according to EN 50200 for 120 minutes) and are fire retardant, low smoke and halogenfree satisfying performance requirements of EN 45545 - 2 HL3. In addition, FLAMEX® cables withstand the tough working conditions of rolling stock (oil, ozone, temperature variations, etc.).

STANDARDS

Product EN 45545 - 2 (HL3)

Test EN 50200; EN 50305; EN 50306; IEC 60331 - 2

DESIGN

1. Conductor
Flexible stranded tinned copper
2. Insulation
Mineral tape as fire barrier
Thin wall halogen - free cross - linked material acc. EN 50306 - 2
Colour: white

Example of marking: FLAMEX 239 - EDE 2PN299 - TYPE EN 50306 - 2
- EN 50200 - 300 V - 1x0.5 - M - week/year - batch number

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



Halogen free
EN 60754 - 1 & EN 60684 - 2



Uo/U
(Um)
300 / 300 V



Fire resistant



EN 60332 - 1 - 2



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



EN/IEC 61034 - 2



가
EN 50305 - 9.2

CHARACTERISTICS

Conductor flexibility		Tin plated copper
Halogen free		Cross - linked compound EN 60754 - 1 & EN 60684 - 2
Insulation colour		White
Stranding (No./mm)		0.5 mm ²
Conductor diameter (mm)		0.95
Minimum cable diameter		1.7 mm
Maximum cable diameter		2 mm
()		7.5 kg/km
Uo/U (Um)		300 / 300 V
20 ° C	DC	40.1 Ohm/km
Fire resistant		-
Fire retardant		EN 60332 - 1 - 2 EN IEC 60332 - 3 - 25 (EN50305)
가		EN/IEC 61034 - 2 EN 50305 - 9.2
操作度范		- 40 ... 105 ° C 105 ° C
Overload maximum core temperature		125 ° C
Chemical resistance		Excellent
Fire load		0.009 kWh/m