



## CONTACT

Markets and Products Information  
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## FIRE RESISTANT DATA CABLES

Fostering innovation, Lynxéo designed FLAMEX® EN 50200 MVB, WTB and CAN BUS cables that can reach data transmission performances for Category 5E or 6A as described in the ISO/CEI 11801, showing no loss of data train and no drop of the transmission parameters when burnt. This unique fire performance is achievable thanks to our technology for fire resistant cables known as INFIT™. On top of the fire performances, this technology makes easier and faster the preparation and the connection of the wires with rolling stock connectors compared to older taping technologies.

## STANDARDS

**Product** EN 50464-1; EN 45545-2 (HL3)

**Test** EN 50200

## DESIGN

### 1. Conductor

Stranded tinned copper (metric or AWG sizes)

### 2. Insulation

Special halogen-free INFIT™ fire proof material  
 Quad or Pairs assemblies

### 3. Screen

Tinned copper braid  
 Separator tape

### 4. Outer sheath

Cross-linked material EM 104 or EM 101 acc. EN 50264-1  
 Oil, diesel, ozone and UV resistant  
 Colour: red

Example of marking: FLAMEX 239 - ...

## ADDITIONAL INFORMATION

- Fire resistant acc. to:
  - EN 50200 PH 30-60 tested under 110 V
  - EN 50200 PH 90 Ethernet frame loss and transmission parameter
- Bending radius:
  - Static use: 8 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



Fire resistant  
 EN 50200 PH90



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



Gases toxicity  
 EN 50305-9.2



Electro magnetic  
 interference  
 resistance  
**Yes**

## CHARACTERISTICS

### Construction characteristics

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

### Usage characteristics

Fire resistant	EN 50200 PH90
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
Gases toxicity	EN 50305-9.2
Electro magnetic interference resistance	Yes

## FLAMEX® FIRE RESISTANT MVB

Reference	Country Ref.	Construction type	Core diameter [mm]	Min. cable diam. [mm]	Max. cable diam. [mm]	Approx. weight [kg/km]
2PM599	2PM599	1x2x0,5	3.7	9.5	10	122
10282384	2PM600	4x0,5	3.4	10.8	11.2	135

## FLAMEX® FIRE RESISTANT WTB

Reference	Country Ref.	Construction type	Core diameter [mm]	Min. cable diam. [mm]	Max. cable diam. [mm]	Approx. weight [kg/km]
10282314	2PM601	1x2x0,75	4.5	11.3	11.7	160

## FLAMEX® FIRE RESISTANT CAN BUS

Reference	Country Ref.	Construction type	Core diameter [mm]	Min. cable diam. [mm]	Max. cable diam. [mm]	Approx. weight [kg/km]
13117047	2PN347	1x2x0,5 + 1x0,5	3.8	9.8	10.2	125