



### CONTACT

Markets and Products Information  
[rollingstock.business@lynxeogroup.com](mailto:rollingstock.business@lynxeogroup.com)

## COMMUNICATION CABLES

FLAMEX® PROFIBUS 150 Ω and CAN BUS 120 Ω cables are designed to improve the protection against electrical disturbances, electromagnetic noises.

### STANDARDS

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

### DESIGN

#### 1. Conductor

Stranded tinned copper

#### 2. Insulation

Foam polyethylene

#### 3. Screen

Tinned copper braid  
 Separator tape

#### 4. Outer sheath

Cross-linked material EM 104 and EM 101 acc. EN 50264-1  
 Oil, diesel, ozone and UV resistant  
 Colour: black for CAN BUS, purple for PROFIBUS

Example of marking: FLAMEX 239 - EDE 2PI096 - 2x0.5 mm<sup>2</sup> + 1x0.5 mm<sup>2</sup> - CAN BUS  
 RS485 - 120 OHM - EM 104 - week/year - Batch number

### GUIDE TO USE

- Bending radius:
  - Static use: ... x outer cable diameter
  - For installation and occasional movements: ... x outer cable diameter



Conductor flexibility  
**Flexible stranded**



Halogen free  
 EN 60754-1 & EN 60684-2



Flame retardant  
 EN 60332-1-2



Fire retardant  
 EN IEC 60332-3-25 (cat D)



Smoke density  
 EN/IEC 61034-2



Gases toxicity  
 EN 50305-9.2



Electro magnetic interference resistance  
**Yes**



Chemical resistance  
**Good**

### 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

Flame retardant	EN 60332-1-2
Fire retardant	EN IEC 60332-3-25 (cat D)
Smoke density	EN/IEC 61034-2
Gases toxicity	EN 50305-9.2
Electro magnetic interference resistance	Yes
Chemical resistance	Good

### FLAMEX® CAN BUS 120 Ω

Reference	Country Ref.	Construction type	Core identification	Nom. outer diam. [mm]	Approx. weight [kg/km]	Minimum operating temperature [°C]	Sheath colour
10122456	2PI096	2 x 0.50 <sup>2</sup> + 1 x 0.50 <sup>2</sup>	Red/Blue + Black	6.8	62	-40	Black
10211762	2PK478	2 x 0.50 <sup>2</sup> + 1 x 0.50 <sup>2</sup>	Red/Blue + Black	6.8	70	-25	Black

### FLAMEX® PROFIBUS 150 Ω

Reference	Country Ref.	Construction type	Core identification	Nom. outer diam. [mm]	Approx. weight [kg/km]	Minimum operating temperature [°C]	Sheath colour
10200654	2PJ623	2 x 0.34 <sup>2</sup>	White, Pink	8.0	82	-40	Purple
10064161	2PF164	2 x 0.34 <sup>2</sup>	White, Pink	8.0	82	-25	Purple