



**Reference:** 10122456  
**Country Ref.:** 2PI096

### CONTACT

Markets and Products Information  
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## 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  
-



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



Minimum operating temperature  
-40 °C



Electro magnetic interference resistance  
Yes

**CHARACTERISTICS****Construction characteristics**

Type of cable	CAN BUS
Conductor material	Tin plated copper
Construction type	2 x 0.50 <sup>2</sup> + 1 x 0.50 <sup>2</sup>
Conductor flexibility	-
Sheath colour	Black
Core identification	Red/Blue + Black
Outer sheath	Cross-linked compound
Halogen free	EN 60754-1 & EN 60684-2

**Dimensional characteristics**

Nominal outer diameter	6.8 mm
Approximate weight	62 kg/km

**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
Minimum operating temperature	-40 °C
Electro magnetic interference resistance	Yes
Chemical resistance	Good