



**Reference:** 10191555  
**Country Ref.:** 2PE993

### CONTACT

Markets and Products Information  
rollingstock.business@lynxeogroup.com

## COMMUNICATION CABLES

FLAMEX® MVB cables are intended for Train Communication Network. They connect individual nodes within a vehicle or closed train. FLAMEX® MVB cables 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 or EM 101 acc. EN 50264-1  
Oil, diesel, ozone and UV resistant  
Colour: turquoise

Example of marking: 300V - 4x0.5mm² M S - QUADRAX 120 OHMS - FLAMEX 239 - EDE 2PK697 - week/year - batch number

### GUIDE TO USE

- 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



Flame retardant  
IEC/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



Minimum operating temperature  
-25 °C

**CHARACTERISTICS****Construction characteristics**

|                       |                          |
|-----------------------|--------------------------|
| Type of cable         | MVB                      |
| Construction type     | 4 x 0.50 <sup>2</sup>    |
| Conductor material    | Tin plated copper        |
| Conductor flexibility | -                        |
| Core identification   | White/Yellow + Red/Black |
| Outer sheath          | Cross-linked compound    |
| Halogen free          | EN 60754-1 & EN 60684-2  |
| Sheath colour         | Turquoise                |

**Dimensional characteristics**

|                        |          |
|------------------------|----------|
| Nominal outer diameter | 8.0 mm   |
| Approximate weight     | 86 kg/km |

**Usage characteristics**

|  |                           |
|--|---------------------------|
| Flame retardant                          | IEC/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                       |
| Minimum operating temperature            | -25 °C                    |
| Chemical resistance                      | Good                      |