



## CONTACT

Markets and Products Information  
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## 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 - 4x0.5mm<sup>2</sup> 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  
Flexible stranded



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



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
Sheath colour	Turquoise

### Dimensional characteristics

Nominal outer diameter	8.0 mm
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### 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
Chemical resistance	Good

## FLAMEX® MVB 120 Ω

Reference	Country Ref.	Construction type	Core identification	Nom. outer diam. [mm]	Approx. weight [kg/km]	Minimum operating temperature [°C]
10089966	2PF580	2 x 0.50 <sup>2</sup>	Black, White	8.0	84	-40
10211790	2PK596	2 x 0.50 <sup>2</sup>	Black, White	8.0	84	-25
10218773	2PK697	4 x 0.50 <sup>2</sup>	White/Yellow + Red/ Black	8.0	86	-40
10191555	2PE993	4 x 0.50 <sup>2</sup>	White/Yellow + Red/ Black	8.0	86	-25