



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 - 4x0.5mm² 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
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 |
|------------------------|--------|

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 ² | Black, White | 8.0 | 84 | -40 |
| 10211790 | 2PK596 | 2 x 0.50 ² | Black, White | 8.0 | 84 | -25 |
| 10218773 | 2PK697 | 4 x 0.50 ² | White/Yellow + Red/ Black | 8.0 | 86 | -40 |
| 10191555 | 2PE993 | 4 x 0.50 ² | White/Yellow + Red/ Black | 8.0 | 86 | -25 |