



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
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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 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