



Country Ref.: 2PM577

CONTACT

Markets and Products Information
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COMMUNICATION CABLES

FLAMEX® ETHERNET are intended for the train backbone and the connection to the different devices. They are designed to operate in harsh environmental conditions. FLAMEX® ETHERNET are designed to improve the protection against electromagnetic noises and provides the highest level of reliability and robustness required by the railway industry.

STANDARDS

Product EN 45545-2 (HL3); EN 50264-1

DESIGN

1. Conductor

Stranded tinned copper

2. Insulation

Polyethylene (PE)
 Quad or Pairs assemblies

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: black or blue

Example of marking: FLAMEX 239 - [4(2xAWG26/19 10Gigabit CAT7)]M S - EDE
 XXXX - week/year / batch number

ADDITIONAL INFORMATION

- 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
 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

Conductor material	Tin plated copper
Type of cable	CAT 6A
Construction type	4 x (2 x 0.25 ²)
Conductor flexibility	Flexible stranded
Outer sheath	Cross-linked compound
Sheath colour	Blue
Core identification	A
Screen	Tinned copper braid
Halogen free	EN 60754-1 & EN 60684-2

Dimensional characteristics

Nominal outer diameter	8.5 mm
Approximate weight	80 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

SELLING AND DELIVERY INFORMATION

A: Color coding for pairs

N°1: white + blue
N°2: white + orange
N°3: white + green
N°4: white + brown

B: Color coding for pairs: N°1: white + blue N°2: yellow + orange

C: Color coding for quads: N°1: white + blue N°2: yellow + orange

D: Color coding for quads: N°1: white + yellow N°2: red + black