



Reference: 10255286  
Country Ref.: 2PM022

## 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



Halogen free  
EN 60754 - 1 & EN 60684 - 2



EN 60332 - 1 - 2



Fire retardant  
EN IEC 60332 - 3 - 25 (cat D)



EN/IEC 61034 - 2



가  
EN 50305 - 9.2



Minimum operating temperature  
- 25 ° C



Electro magnetic interference resistance  
Yes

## CHARACTERISTICS

Type of cable	CAT 5E
	Tin plated copper
	4 x AWG 22/7 (0,34 <sup>2</sup> )
Conductor flexibility	Cross - linked compound
Sheath colour	
Core identification	C
Halogen free	EN 60754 - 1 & EN 60684 - 2
Nominal outer diameter	6.5 mm
( )	62 kg/km
	EN 60332 - 1 - 2
Fire retardant	EN IEC 60332 - 3 - 25 (cat D)
	EN/IEC 61034 - 2
가	EN 50305 - 9.2
Minimum operating temperature	- 25 ° 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