



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



导线柔软度
柔软绞和



无卤
EN 60754-1 & EN
60684-2



阻燃 - 火焰
EN 60332-1-2



阻燃
EN IEC 60332-3-25
(cat D)



烟密度
EN/IEC 61034-2



气体毒性
EN 50305-9.2



抗电磁干扰
是



耐化学物质
好

CHARACTERISTICS

结构特性

导体材料	Tin plated copper
导线柔软度	柔软绞和
外护套	Cross-linked compound
屏蔽	镀锡铜编织
无卤	EN 60754-1 & EN 60684-2

使用特性

阻燃 - 火焰	EN 60332-1-2
阻燃	EN IEC 60332-3-25 (cat D)
烟密度	EN/IEC 61034-2
气体毒性	EN 50305-9.2
抗电磁干扰	是
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FLAMEX® ETHERNET CAT. 7A

Reference	Country Ref.	结构类型	芯线标记	Nom. outer diam. [mm]	Approx. weight [kg/km]	最低工作温度 [° C]	护套颜色
10272559	2PM617	4 x (2 x 0.25 ²)	A	8.5	85	-40	黑

FLAMEX® ETHERNET CAT. 7

Reference	Country Ref.	结构类型	芯线标记	Nom. outer diam. [mm]	Approx. weight [kg/km]	最低工作温度 [° C]	护套颜色
10272118	2PM615	4 x (2 x 0.25 ²)	A	8.5	82	-40	蓝
10271919	2PM622	4 x (2 x AWG 24/7)	A	8.1	71	-40	黑
10273639	2PM697	4 x (2 x AWG 26/7)	A	7.1	55	-40	黑

FLAMEX® ETHERNET CAT. 6A

Reference	Country Ref.	结构类型	芯线标记	Nom. outer diam. [mm]	Approx. weight [kg/km]	最低工作温度 [° C]	护套颜色
	2PM577	4 x (2 x 0.25 ²)	A	8.5	80	-40	蓝
10285695	2PN189	4 x (2 x 0.25 ²)	A	8.5	80	-40	蓝
	2PM578	4 x (2 x 0.50 ²)	A	11.9	147	-40	蓝
10285696	2PN260	4 x (2 x 0.50 ²)	A	11.9	147	-40	蓝

FLAMEX® ETHERNET CAT. 5E

Reference	Country Ref.	结构类型	芯线标记	Nom. outer diam. [mm]	Approx. weight [kg/km]	最低工作温度 [° C]	护套颜色
10263380	2PC912	2 x (2 x 0.25 ²)	A	6.5	55	-25	黑
	2PI232	2 x (2 x 0.50 ²)	B	9.7	120	-40	黑
10171573	2PI232	2 x (2 x 0.50 ²)	B	9.7	120	-40	黑

Reference	Country Ref.	结构类型	芯线标记	Nom. outer diam. [mm]	Approx. weight [kg/km]	最低工作温度 [° C]	护套颜色
10211641	2PK592	2 x (2 x 0.50 ²)	B	9.7	120	-25	黑
10218857	2PK699	4 x 0.25 ²	C	6.7	65	-40	蓝
10206077	2PK319	4 x 0.25 ²	C	6.7	65	-25	蓝
10218856	2PK698	4 x 0.50 ²	C	8.5	96	-40	蓝
10200793	2PK211	4 x 0.50 ²	C	8.5	96	-25	蓝
10276147	2PM676	4 x AWG 22/7 (0, 34 ²)	C	6.5	62	-40	蓝
10255286	2PM022	4 x AWG 22/7 (0, 34 ²)	C	6.5	62	-25	蓝
10225080	2PK847	4 x AWG 22/7 (0, 34 ²)	D	6.5	62	-40	黑
10146257	2PG229	4 x AWG 22/7 (0, 34 ²)	D	6.5	62	-25	黑

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