



Reference: 10272381
Country Ref.: 2PM653

CONTACT

Markets and Products Information
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FIRE RESISTANT ETHERNET CABLES

Fostering innovation, Lynxéo designed FLAMEX® Ethernet FR that can reach data transmission performances for Category 5E or 6A as described in the ISO/CEI 11801, showing no loss of data train and no drop of the transmission parameters when burnt. This unique fire performance is achievable thanks to our technology for fire resistant cables known as INFIT™. On top of the fire performances, this technology makes easier and faster the preparation and the connection of the wires with rolling stock connectors compared to older taping technologies. FLAMEX® FR Ethernet cables are fire retardant, low smoke and halogen-free satisfying performance requirements from EN 45545-2.

STANDARDS

Produkt EN 50464-1; EN 45545-2 (HL3)

Tests EN 50200

DESIGN

1. Conductor

Stranded tinned copper (metric or AWG sizes)

2. Insulation

Special halogen-free INFIT™ fire proof material
 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: red

Example of marking: FLAMEX 239 - EDE 2PM653 - [4(2x0.25mm² 10Gigabit CAT 6A)] M S - EN 50200 - week and year of manufacture - batch number

ADDITIONAL INFORMATION

- Fire resistant acc. to:
 - EN 50200 PH 30-60 tested under 110 V
 - EN 50200 PH 90 Ethernet frame loss and transmission parameter
- Bending radius:
 - Static use: 8 x outer cable diameter
 - For installation and occasional movements: 10 x outer cable diameter



Leiterflexibilität
-



Halogenfrei
 EN 60754-1 & EN 60684-2



Feuerbeständig
 EN 50200 PH90



Flammwidrig
 EN 45545-2 (HL3)



Flammwidrig
-



Rauchdichte
 EN 45545-2 (HL3)



Toxizität der (Brand-)Gase
-



Elektromagnetisch
 geschirmt
 Ja

CHARACTERISTICS**Konstruktionsmerkmale**

Kabeltype	CAT 6A
Leitermaterial	-
Leitungsaufbau	4x2x0,25
Verseilung	Pair
Leiterflexibilität	-
Außenmantel	Cross-linked compound
Mantelfarbe	Rot
Aderkennzeichnung	-
Schirm	-
Halogenfrei	EN 60754-1 & EN 60684-2

Abmessungsmerkmale

Kerndurchmesser	2,4 mm
Min. Kabeldurchmesser	12 mm
Max. Kabeldurchmesser	14 mm
Nettogewicht ca.	170 kg/km

Elektrische Eigenschaften

Wellenwiderstand	100 Ohm
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Anwendungsmerkmale

Feuerbeständig	EN 50200 PH90
Brandsicherheit	EN 50200 PH 90 Ethernet protocol
Flammwidrig	EN 45545-2 (HL3)
Flammwidrig	-
Rauchdichte	EN 45545-2 (HL3)
Toxizität der (Brand-)Gase	-
Elektromagnetisch geschirmt	Ja
Chemische Beständigkeit	-