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CONTACT

Market information
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Fire Resistant Armoured cables CR1-C1-C2 RATP Specification K27

STANDARDS

Product IEC 60228; NF C32-310

Test NF C32-070/C1; NF C32-070/C2

FIRE PERFORMANCE

- Flame retardant: According to RATP K20 specification
- Fire retardant : According to RATP K20 specification
- Fire resistant : According to RATP K20 specification
- Low smoke: According to RATP K20 specification
- Without Halogene: According to RATP K20 specification
- Low Toxicity: According to RATP K20 specification
- Low Corrosivity: According to RATP K20 specification

DESIGN

- **Conductor:** Bare copper - Solid class 1 for cross section < 4mm² - Stranded class 2 for cross section ≥ 4mm²
- **Insulation :** Mica tape + Silicone rubber
- **Inner sheath:** Halogen free Polyolefin
- **Armour:** Stainless steel tapes for single core, steel tapes for multicores
- **Outer sheath:** Halogen free Polyolefin, Colour : orange

Core identification

1x: White
2x: blue-brown
3x: brown-black-grey (brown-black-blue for cross sections 1,5mm² and 2,5mm²)
3G: green/yellow-blue-brown
4x: blue-brown-black-grey
4G: green/yellow-brown-black-grey
5x: blue-brown-black-grey-black
5G: green/yellow-blue-brown-black-grey
7x: white numbered with or without green/yellow

Marking

K27 - 600/1000 - Nber of cores & cross-section - ARME - MM/YY - LYNXEO 279 - Manufacturing n° + metric marking



Halogen free
IEC 60754-1



Mechanical
resistance to
impacts
Good



Fire resistant
NF C 32-070 CR1



Fire retardant
NFC 32070 C1



Flame retardant
NFC 32070 C2



Smoke density
IEC 61034-2



Gases corrosivity
IEC 60754-2



Operating temp.
-20 ... 70 °C

CHARACTERISTICS**Construction characteristics**

Conductor material	Plain copper
Type of conductor	Stranded, class 2
Insulation	Mica tape
Insulating material	Silicone
Inner sheath	Polyolefin
Armour type	Steel tapes
Outer sheath	Halogen free polyolefin
Sheath colour	Orange
Halogen free	IEC 60754-1
With Green/Yellow core	No

Dimensional characteristics

Number of cores	4
Conductor cross-section	50 mm ²
Maximum outer diameter	46.5 mm
Approximate weight	3703 kg/km
Minimum outer diameter	- mm

Electrical characteristics

DC permissible current rating	- A
Voltage Drop	- V/A.km

Mechanical characteristics

Mechanical resistance to impacts	Good
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Usage characteristics

Fire resistant	NF C 32-070 CR1
Fire retardant	NFC 32070 C1
Flame retardant	NFC 32070 C2
Smoke density	IEC 61034-2
Gases corrosivity	IEC 60754-2
Operating temperature, range	-20 ... 70 °C
Max. conductor temperature in service	90 °C
Oil resistance	Good
Chemical resistance	Good
Rodent protection	Yes