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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

DESIGN

- 1. Conductor**
 Bare copper - Solid class 1 for cross sections < 4mm²
 Stranded class 2 for cross section ≥ 4mm²
- 2. Insulation**
 Mica tape + Silicone rubber
- 3. Assembly**
- 4. Inner sheath**
 Halogen free Polyolefin
- 5. Armour**
 Stainless steel tapes
- 6. Sheath**
 Halogen free Polyolefin
 Colour: orange

Core identification

- 2x: brown - blue
- 3x: brown - black - grey (brown - black - blue if the conductor cross-section is 1.5 or 2.5mm²)
- 3G: brown - blue - green/yellow
- 4x: brown - black - grey - blue
- 4G: brown - black - grey - green/yellow
- 5x: black cores with printed numbers
- 5G: blue - brown - black - grey - green/yellow
- 7 cores and above : black cores with printed numbers

Marking

K27 - 300/500V - Number of cores & cross-section - ARMÉ - 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
Insulation	Mica tape
Insulating material	Silicone
Armour type	Steel tapes
Inner sheath	Polyolefin
Outer sheath	Halogen free polyolefin
Sheath colour	Orange
Halogen free	IEC 60754-1
Type of conductor	Solid, Class 1
With Green/Yellow core	Yes

Dimensional characteristics

Number of cores	3
Conductor cross-section	1.5 mm ²
Approximate weight	329 kg/km
Maximum outer diameter	15.3 mm
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