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#### CONTACT

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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 section  $< 4\text{mm}^2$   
Stranded class 2 for cross section  $\geq 4\text{mm}^2$

#### 2. Insulation

Mica tape + Silicone rubber

#### 3. Assembly

#### 4. Inner sheath

Halogen free Polyolefin

#### 5. Armour

Non magnetic stainless steel tapes for single core, steel tapes for multi core

#### 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  $2.5\text{mm}^2$ )

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 - 600/1000V - 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
Type of conductor	Stranded, class 2
Insulation	Mica tape
Insulating material	Silicone
Inner sheath	Polyolefin
Armour type	-
Outer sheath	Halogen free polyolefin
Sheath colour	Orange
Halogen free	IEC 60754-1
With Green/Yellow core	No

**Dimensional characteristics**

Number of cores	1
Conductor cross-section	150 mm <sup>2</sup>
Maximum outer diameter	31.0 mm
Approximate weight	2130 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