

Reference: 10286537  
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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 < 4mm<sup>2</sup> - Stranded class 2 for cross section ≥ 4mm<sup>2</sup>
- **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 1,5mm<sup>2</sup> and 2,5mm<sup>2</sup>)  
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 | Yes                     |

**Dimensional characteristics**

|                         |                    |
|-------------------------|--------------------|
| Number of cores         | 5                  |
| Conductor cross-section | 16 mm <sup>2</sup> |
| Maximum outer diameter  | 36.2 mm            |
| Approximate weight      | 2070 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 |
|----------------------------------|------|

**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             |