

Reference: 10286541
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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 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 2.5mm^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	Yes

Dimensional characteristics

Number of cores	5
Conductor cross-section	35 mm ²
Maximum outer diameter	46.4 mm
Approximate weight	3628 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