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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 < 4mm²
Stranded class 2 for cross section ≥ 4mm²

2. Insulation

Mica tape + Silicone rubber

3. Assembly

4. Collective screen

Polyester tape/copper tape/tinned copper drain wire/polyester tape

5. Inner sheath

Halogen free Polyolefin

6. Armour

Non-magnetic stainless steel

7. Sheath

Halogen free Polyolefin
Colour: orange

Core identification

Pair: white-blue

Each core printed with pair number

Marking

K27 - 600/1000V - Number of cores & cross-section - ARMOURED - 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 ²
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