

### 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 < 4mm<sup>2</sup>  
 Stranded class 2 for cross section ≥ 4mm<sup>2</sup>

#### 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
Insulation	Mica tape
Insulating material	Silicone
Inner sheath	Polyolefin
Armour type	Non-magnetic stainless steel
Outer sheath	Halogen free polyolefin
Sheath colour	Orange
Halogen free	IEC 60754-1

#### 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



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

## K27 ARMoured CABLES 600/1000V

Reference	Nb. of cores	Cross section [mm <sup>2</sup> ]	Type of conductor	Green/ Yellow core	Max. outer diam. [mm]	Approx. weight [kg/km]
10265026	1	16	Stranded, class 2	No	17.0	504
10052886	1	25	Stranded, class 2	No	19.0	605
10052887	1	35	Stranded, class 2	No	20.5	753
10265251	1	50	Stranded, class 2	No	22.0	910
10265264	1	70	Stranded, class 2	No	24.5	1194
10265265	1	95	Stranded, class 2	No	27.0	1493
10092495	1	120	Stranded, class 2	No	28.5	1778
10092496	1	150	Stranded, class 2	No	31.0	2130
10087163	1	185	Stranded, class 2	No	34.0	2597
10280173	1	240	Stranded, class 2	No	37.5	3278
10229854	3	16	Stranded, class 2	Yes	31.0	1508
10267328	4	2.5	Solid, Class 1	Yes	23.5	684
10267330	4	4	Stranded, class 2	Yes	26.0	860
10267329	4	6	Stranded, class 2	Yes	27.5	1099
10267331	4	10	Stranded, class 2	Yes	30.5	1414
10267332	4	16	Stranded, class 2	Yes	39.5	1777
10265266	4	25	Stranded, class 2	No	39.5	2363
10216118	4	25	Stranded, class 2	Yes	39.5	2413
10265267	4	35	Stranded, class 2	No	43.0	2992
10267333	4	35	Stranded, class 2	Yes	43.0	3066
10265268	4	50	Stranded, class 2	No	46.5	3703
10286540	5	2.5	Solid, Class 1	Yes	25.0	839
10265253	5	4	Stranded, class 2	Yes	28.5	1000
10265249	5	6	Stranded, class 2	Yes	30.5	1322
10286536	5	10	Stranded, class 2	Yes	33.2	1623
10286537	5	16	Stranded, class 2	Yes	36.2	2070
10286538	5	25	Stranded, class 2	Yes	41.6	2823
10286541	5	35	Stranded, class 2	Yes	46.4	3628
10286539	5	50	Stranded, class 2	Yes	51.2	4562