

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 2.5mm²)

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

Halogen free IEC 60754-1

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



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