

CONTACT

Market information
industryprojects.business@lynx
ogroup.com

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 < 4mm² - Stranded class 2 for cross section ≥ 4mm²
- **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 1,5mm² and 2,5mm²)
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
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

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	Nb. of cores	Cross section [mm ²]	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