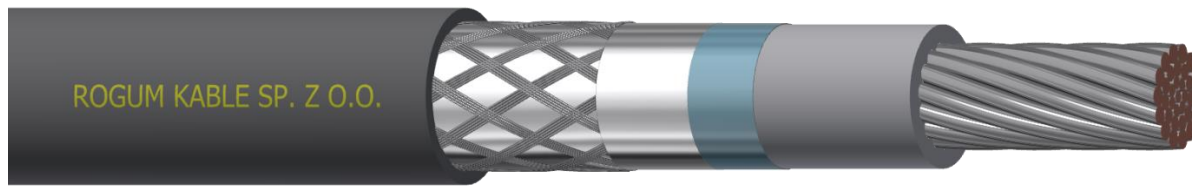


NLgNek-K 1,8/3 kV ZN-FKR-50264-027:2019



Halogen-free power cables for rolling stock.
Screened single-core cables with halogen free, cross-linked insulation and halogen free, flame retardant sheath, for rated voltage 1,8/3 kV

Standard:	ZN-FKR-50264-027:2019
Related standards:	PN-EN 45545-2+A1:2015-12; PN-EN 60228:2007; PN-EN 50264-3-1:2008.

CONSTRUCTION

Conductor	Stranded tin plated copper wires, class 5 according to EN 60228:2007
Insulation	Cross-linked compound (1,5 mm ² - 16 mm ²). Cross-linked compound with increase elasticity (25 mm ² -240mm ²).
Color of insulation	Natural
Screen	Tin plated copper braid with ALU-PET tape under screen.
Sheath	Halogen free, flame retardant, low smoke compound
Color of sheath	Grey

CHARACTERISTIC

Rated voltage	1,8/3 kV
Test voltage	6,5 kV
Working temperature range	from - 40 °C to + 90 °C
Minimum installation temperature	- 5 °C
The minimum bending radius	for fixed installation – 3D for sporadic moves – 4D
Example of cable marking	ROGUM KABLE sp. z o.o. NLgNek-K 1,8/3 kV 1x10 mm² ZN-FKR-50264-027:2019 ID: 2081725 Power cable with tin-plated copper conductors, class 5 (Lg), with halogen-free insulation (N) screened (ek) and halogen-free sheath (N), for rolling stock (K).

APPLICATION

Typical applications for power supply to various systems inside and outside railway rolling stock at fixed and sporadic moving installations.

CERTIFICATE AND APPROVALS

Certificate of conformity standard PN-EN 45545-2+A1:2015-12 from Railway Institute

ADDITIONAL INFORMATION

At the client's request, it is possible to:

- change the color of the insulation/sheath

In matters relating to detailed technical data, please contact our Technical Advisor: doradztwotechniczne@rogum.com.pl

CARD NUMBER

102

RELEASE DATE

21-08-2019



CONSTRUCTION					
Cross-section of core	Max diameter of the wires in the core	Nominal thickness of the insulation	Nominal thickness of the sheath	Max cable diameter	Approximate weight of the cable
mm ²	mm	mm	mm	mm	kg/km
1,5	0,26	1,3	0,8	6,7	66
2,5	0,26	1,3	0,8	7,1	81
4	0,31	1,3	0,8	7,6	96
6	0,31	1,3	0,8	8,5	130
10	0,41	1,5	0,8	10,2	190
16	0,41	1,5	0,8	11,6	294
25	0,41	1,8	1,0	14,2	388
35	0,41	1,8	1,0	15,6	494
50	0,41	1,8	1,0	17,4	668
70	0,51	1,8	1,0	19,4	851
95	0,51	2,2	1,0	21,9	1106
120	0,51	2,2	1,0	23,7	1320
150	0,51	2,2	1,2	25,5	1630
185	0,51	2,4	1,2	28,6	1982
240	0,51	2,4	1,2	30,7	2416

PARAMETERS	
Cross-section of core	The highest conductor resistance at 20°C
mm ²	Ω/km
1,5	13,7
2,5	8,21
4	5,09
6	3,39
10	1,95
16	1,24
25	0,795
35	0,565
50	0,393
70	0,277
95	0,210
120	0,164
150	0,132
185	0,108
240	0,0817