



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



**Halogen-free power cables for rolling stock.
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 mm² - 16 mm²).
Cross-linked compound with increase elasticity (25 mm²-240mm²).

Color of insulation Natural

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 moving – 4D

Example of cable marking **ROGUM KABLE sp. z o.o. NLgN-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) 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

101

RELEASE DATE

21-08-2019

**ROGUM KABLE**

Sp. z o.o.

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	46
2,5	0,26	1,3	0,8	7,0	60
4	0,31	1,3	0,8	7,6	78
6	0,31	1,3	0,8	8,1	108
10	0,41	1,5	0,8	9,6	162
16	0,41	1,5	0,8	10,8	219
25	0,41	1,8	1,0	13,4	307
35	0,41	1,8	1,0	14,9	411
50	0,41	1,8	1,0	16,5	563
70	0,51	1,8	1,0	18,5	742
95	0,51	2,2	1,0	21,0	993
120	0,51	2,2	1,0	22,9	1203
150	0,51	2,2	1,2	25,1	1508
185	0,51	2,4	1,2	27,4	1856
240	0,51	2,4	1,2	30,3	2284

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