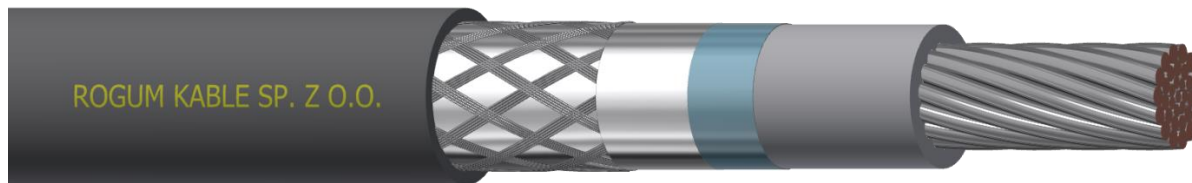


**NLgNek-K inf. 1,8/3 kV ZN-FKR-50264-027:2019**

ROGUM KABLE SP. Z O.O.

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. Cables for powering frequency converters.

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

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

Rated voltage	1,8/3 kV
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Test voltage	6,5 kV
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Working temperature range	from - 40 °C to + 90 °C
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Minimum installation temperature	- 5 °C
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The minimum bending radius	for fixed installation – 3D for sporadic moves – 4D
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Example of cable marking	ROGUM KABLE sp. z o.o. NLgNek-K inf. 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) double screened (ek inf.) and halogen-free sheath (N), for rolling stock (K).
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APPLICATION

Cables for fixed and sporadic moving installations in rail vehicles and for powering frequency converters

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	105	RELEASE DATE	21-08-2019
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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	6,9	96
2,5	0,26	1,3	0,8	7,3	110
4	0,31	1,3	0,8	7,8	130
6	0,31	1,3	0,8	8,9	161
10	0,41	1,5	0,8	10,4	218
16	0,41	1,5	0,8	11,8	277
25	0,41	1,8	1,0	14,4	371
35	0,41	1,8	1,0	15,9	478
50	0,41	1,8	1,0	17,6	634
70	0,51	1,8	1,0	19,6	817
95	0,51	2,2	1,0	22,1	1071
120	0,51	2,2	1,0	23,9	1286
150	0,51	2,2	1,2	25,7	1595
185	0,51	2,4	1,2	28,8	1948
240	0,51	2,4	1,2	30,9	2381

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