

NLgN-K 3,6 /6 kV

ROGUM KABLE SP. Z O.O.

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 3,6/6 kV

Standard: ZN-FKR-023:2009/A4:2019

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

Insulation Crosslinked compound

Color of insulation Red

Sheath Halogen free, flame retardant, low smoke compound

Color of sheath Black

CHARACTERISTIC

Rated voltage 3,6/6 kV

Test voltage 11 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 3,6/6 kV 1x10 mm² 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

Railway Institute Certificate

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

28

RELEASE DATE

23-06-2023



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
0,75	0,21	1,0	0,7	4,7	25
1	0,21	1,1	0,7	5,1	30
1,5	0,26	1,3	0,8	5,9	40
2,5	0,26	1,3	0,8	6,3	52
4	0,31	1,4	0,9	7,3	75
6	0,31	1,4	0,9	8,0	102
10	0,41	1,5	1,0	9,9	154
16	0,41	1,5	1,0	10,9	209
25	0,41	1,5	1,1	12,7	301
35	0,41	1,6	1,1	14,4	408
50	0,41	1,7	1,1	16,3	565
70	0,51	1,7	1,1	18,1	745
95	0,51	1,7	1,1	19,9	971
120	0,51	1,8	1,2	22,1	1196
150	0,51	1,9	1,2	24,0	1485
185	0,51	2,0	1,2	27,0	1825
240	0,51	2,0	1,2	28,6	2250

PARAMETERS	
Cross-section of core	The highest conductor resistance at 20 °C
mm ²	Ω/km
0,75	26,7
1,0	20,0
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