

LgN-K 0,6 /1 kV



**Halogen-free flame retardant power cables for railway rolling stock.
Single-core cables with cross-linked insulation for rated voltage 0,6/1 kV**

Standard:	ZN-FKR-015:2006/A5:2019		
Related standard:	PN-EN 45545-2+A1:2015-12; PN-EN 60228:2007; PN-EN 50363-5:2010/A1:2011		
CONSTRUCTION			
Conductor	Stranded tin plated class 5 copper wires		
Sheath	Crosslinked halogen free, flame retardant compound		
Color of sheath	Grey		
CHARACTERISTIC			
Rated voltage	0,6/1 kV		
Test voltage	3,5 kV		
Working temperature range	from - 40 °C to + 90 °C		
Minimum installation temperature	- 5 °C		
The minimum bending radius	no less than: 3D		
Example of cable marking	ROGUM KABLE sp. z o.o. LgN-K 0,6/1 kV 1x10 mm² ID: 2081725 Power cable with tin-plated copper conductors, class 5 (Lg), halogen-free insulation (N), for rolling stock (K).		
APPLICATION			
Typical applications for power supply to various systems inside railway rolling stock at fixed or 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 In matters relating to detailed technical data, please contact our Technical Advisor: doradztwotechniczne@rogum.com.pl			
CARD NUMBER	25	RELEASE DATE	21-06-2023



CONSTRUCTION				
Cross-section of core	Max diameter of the wires in the core	Nominal thickness of the insulation	Max cable diameter	Approximate weight of the cable
mm²	mm	mm	mm	kg/km
0,5	0,21	0,5	2,0	10
0,75	0,21	0,6	2,4	11
1,0	0,21	0,6	2,6	14
1,5	0,26	0,6	2,9	17
2,5	0,26	0,6	3,3	28
4	0,31	0,7	4,0	44
6	0,31	0,8	5,0	69
10	0,41	0,9	6,6	112
16	0,41	0,9	7,6	162
25	0,41	1,0	9,4	245
35	0,41	1,1	11,1	345
50	0,41	1,2	13,0	496
70	0,51	1,2	14,8	667
95	0,51	1,3	16,7	895
120	0,51	1,4	19,3	1106
150	0,51	1,5	20,8	1388
185	0,51	1,7	23,5	1734
240	0,51	1,7	25,6	2150

PARAMETERS	
Cross-section of core	The highest conductor resistance at 20 °C
mm²	Ω/km
0,5	40,1
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