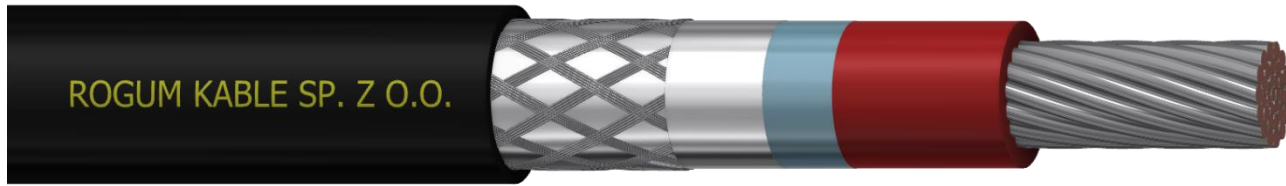


NLgNek-K 3,6/6 kV ZN-FKR-50264-028:2019



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 3,6/6 kV			
Standard:	ZN-FKR-50264-028:2019		
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	Red		
Screen	Tin plated copper braid with ALU-PET tape under screen.		
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 moves – 4D		
Example of cable marking	ROGUM KABLE sp. z o.o. NLgNek-K 3,6/6 kV 1x10 mm² ZN-FKR-50264-028:2019 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	104	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
2,5	0,26	2,6	0,8	10,1	159
4	0,31	2,6	0,8	10,7	181
6	0,31	2,6	0,8	11,2	220
10	0,41	2,6	0,8	12,6	273
16	0,41	2,6	0,8	13,7	337
25	0,41	2,9	1,0	16,3	421
35	0,41	2,9	1,0	17,9	533
50	0,41	2,9	1,0	19,6	694
70	0,51	2,9	1,0	21,4	882
95	0,51	2,9	1,0	22,9	1117
120	0,51	2,9	1,2	25,2	1356
150	0,51	2,9	1,2	27,3	1649
185	0,51	3,2	1,2	29,9	2015
240	0,51	3,4	1,4	33,1	2502

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