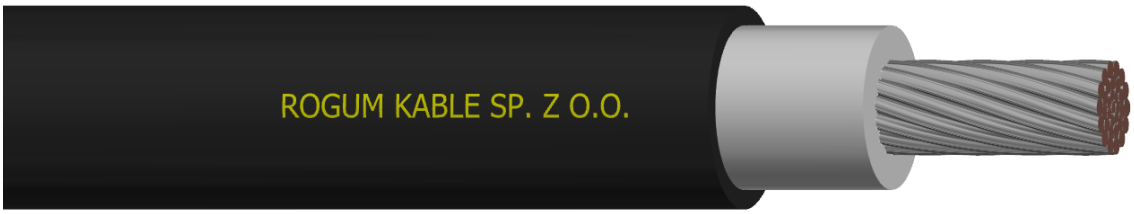
GLgGb/c-K FLEX 3kV, GLggGb/c-K FLEX 3kV



Power cables insulated and sheathed in flexible polymeric material for rolling stock. Single-core cables for rated voltage of 3 kV

Standard:	ZN-FKR-010:2005/A1:2016
Related standards:	PN-EN 60228:2007; PN-EN 50363-2-1:2008; PN-89/E-29100.
CONSTRUCTION	
Conductor	Stranded tin plated copper wires, class 5 (Lg) or class 6 (Lgg)
Insulation	Specialized copolymer compound, heat resistant with increased flexibility.
Color of insulation	White
Tire	Specialized polymer compound with increased flexibility.
Tire color	Black
CHARACTERISTIC	
Rated voltage	1,8/3 kV
Test voltage	12 kV
Working temperature range	od - 50 °C do + 90 °C
Minimum installation temperature	- 40 °C
The minimum bending radius	not less than: 5 D
Example of cable marking	**ROGUM KABLE sp. z o.o. GLgGb/c-K FLEX 3 kV 1x35 mm² ID: 2081725** Power cable with cl.5 copper conductors (Lg), with heat-resistant insulation (Gc) and flame-retardant sheath (G), for rolling stock (K). FLEX- increased flexibility.

APPLICATION

Wires for mobile connections in or between rail vehicles under conditions of frequent bending and exposure to weather and lubricants.

CERTIFICATE AND APPROVALS

ADDITIONAL INFORMATION

At the client's request, it is possible to:
• change the color of the insulation,
• manufacture of non-standard conduit with other cross sections at the request of the customer.
In matters relating to detailed technical data, please contact our Technical Advisor: doradztwotechniczne@rogum.com.pl

CARD NUMBER	37	**RELEASE DATE**	28-06-2023

RAILWAY ROLLING STOCK

CONSTRUCTION					
GLgGb/c-K FLEX 3 kV					
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	2,3	1,2	10,3	78
2,5	0,26	2,3	1,2	10,8	93
4	0,31	2,3	1,2	11,3	114
6	0,31	2,3	1,2	12,5	147
10	0,41	2,3	1,3	13,9	201
16	0,41	2,3	1,3	14,9	261
25	0,41	2,3	1,5	16,8	365
35	0,41	2,3	1,5	18,4	476
50	0,41	2,5	1,5	20,4	650
70	0,51	2,5	1,5	22,3	839
95	0,51	2,7	1,6	25,2	1098
120	0,51	2,8	1,6	27,5	1328
150	0,51	2,8	1,8	29,5	1643
185	0,51	2,9	1,8	31,8	1995
240	0,51	3,0	1,8	35,7	2449
300	0,51	3,1	1,8	37,7	3059

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2,5	0,26	2,3	1,2	11,1	93
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6	0,31	2,3	1,2	12,4	147
10	0,41	2,3	1,3	13,7	201
16	0,41	2,3	1,3	15,0	261
25	0,41	2,3	1,5	17,0	365
35	0,41	2,3	1,5	18,6	476
50	0,41	2,5	1,5	21,2	650
70	0,51	2,5	1,5	22,6	839
95	0,51	2,7	1,6	25,8	1098
120	0,51	2,8	1,6	27,5	1328
150	0,51	2,8	1,8	30,3	1643
185	0,51	2,9	1,8	32,5	1995

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
300	0,0654