

YnHKGSly 150/250V; 300/500V; 0,6/1 kV



**Mining signal cables with insulation and sheath made of PVC and rated voltage of 150/250V, 300/500V or 0,6/1 kV.
Multi-core cables with individually shielded cores.**

According to	ZN-FKR-01:2018; PN-EN 60332-1-2:2010/A1:2016-02
CONSTRUCTION	
Conductor	Annealed, multi-stranded, tinned copper, class 5 flexible conductor acc. to PN-EN 60228
Insulation	PVC type TI 1, acc. to PN-EN 50363-3:2010
Shield	Individually shielded cores, shield made out of braided 0,1mm tinned copper wires with an opacity of at least 65%
Cable core	Cable core consists of insulated and individually shielded power cores and 1 protective conductor stranded together and covered in a common sheath.
Sheath	PVC type TM 1 acc. to PN-EN 50363-4-1:2010 flame retardant properties, oxygen index of at least 29%
Sheath colour	Grey (150/250V or 300/500V), yellow (0,6/1 kV)
Insulation colour	Each black core has its own identification number printed on insulation. Yellow-green grounding core placed in the outer layer
CHARACTERISTIC	
Rated voltage U_o/U	150/250V; 300/500V; 0,6/1 kV
Test voltage for power cores	1,5 kV; 2 kV; 3,5 kV
Maximum core temperature during operation	+70 °C
Maximum core temperature during short circuit	+150 °C
Minimum ambient temperature for installation	-5 °C
Ambient temperature range for working conditions	Fixed installation - 30 to +70 °C Mobile connections - 5 to +70 °C
Minimum bending radius	10 x D (D – outer cable diameter)
Cable name explanation	YnHKGSly 0,6/1 kV – mining (KG) signal (S) cable with multi-stranded copper wires (L), PVC insulation (Y), sheath made of flame retardant PVC (Yn). Cores individually shielded by a braid made of tinned copper wires (H)
Cable marking	YnHKGSly0,6/1 kV 4x1,5+1,5 mm ² ROGUM KABLE Sp. z o.o. + cable ID + meter mark + year of production Each cable has a legible and permanent marking repeated cyclically, printed longitudinally on outer sheath including in particular: manufacturer's name, cable / wire type, cross-section, number of wires, rated voltage, identifier, year of production and the length of the delivered section.

APPLICATION

Cables with individually shielded cores and optional common shield meant for work at control and protection units. Designed for use in open-pit and underground mining sites:

- in methane free zones, class "a", "b" or "c" methane explosion hazard zones and class "A" or "B" coal dust explosion hazard zones;
- in intrinsically safe circuit;
- in open-pit and underground mining sites away of explosion hazard zones

CERTIFICATES AND APPROVALS

EMAG certificate (Łukasiewicz Research Network – Institute of Innovative Technologies)

ADDITIONAL INFORMATION

On request there is a possibility:

- to change the colour of the sheath

In all cases concerning detailed technical data please contact our Client Advisor: doradztwotechniczne@rogum.com.pl

CARD NUMBER

84

EDITION

21.03.2023

CABLE CONSTRUCTION							
Number and cross-sectional area of cores	Maximum permitted wire diameter	150/250 V		300/500 V		0,6/1 kV	
		Maximum cable outer diameter	Approximated cable mass	Maximum cable outer diameter	Approximated cable mass	Maximum cable outer diameter	Approximated cable mass
n*mm ²	mm	mm	kg/km	mm	kg/km	mm	kg/km
1x1+1	0,21	8,8	95	9,2	106	11,1	127
2x1+1	0,21	9,5	120	9,9	129	11,9	156
3x1+1	0,21	10,2	145	10,7	157	12,7	194
4x1+1	0,21	11,1	174	11,7	191	13,7	235
6x1+1	0,21	12,1	215	12,7	237	14,8	290
9x1+1	0,21	15,3	332	16,2	347	18,5	456
1x1,5+1,5	0,26	9,7	114	10,3	123	11,1	136
2x1,5+1,5	0,26	10,2	142	10,6	154	12,6	172
3x1,5+1,5	0,26	10,9	173	11,5	187	13,4	212
4x1,5+1,5	0,26	11,9	210	12,5	229	14,6	261
6x1,5+1,5	0,26	13,0	261	13,7	288	15,8	332
9x1,5+1,5	0,26	16,6	365	17,4	382	19,7	454
11x1,5+1,5	0,26	17,2	430	-	-	-	-
1x2,5+2,5	0,26	10,7	140	11,3	156	12,4	175
2x2,5+2,5	0,26	11,1	180	11,6	199	13,5	219
3x2,5+2,5	0,26	12,0	223	12,5	243	14,5	272
4x2,5+2,5	0,26	13,1	270	13,7	305	15,7	334
6x2,5+2,5	0,26	14,3	342	14,9	381	17,0	421
1x4+4	0,31	11,8	171	12,4	183	14,7	200
2x4+4	0,31	12,7	227	13,2	242	15,6	265
3x4+4	0,31	13,7	289	14,3	310	16,7	330
4x4+4	0,31	15,1	355	15,6	379	18,2	415
6x4+4	0,31	16,5	463	17,1	500	19,8	539