

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



Mining signal cables with PVC insulation and sheath, rated voltage 150/250V, 300/500V or 0,6/1 kV

| | | |
|--|--|--|
| According to | ZN-FKR-01:2018; PN-EN 60332-1-2:2010/A1:2016-02 | |
| CONSTRUCTION | | |
| Conductor | Annealed, multi-stranded, copper, class 5 flexible conductor acc. to PN-EN 60228 | |
| Insulation | PVC type TI 1, acc. to PN-EN 50363-3:2010 | |
| Cable core | Cable core consists of individually insulated power cores and protective conductor, all cores stranded together placed 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. Protective conductor marked with yellow-green insulation, placed in the outer layer. | |
| CHARACTERISTIC | | |
| Rated voltage Uo/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 | YnKGSLY - mining (KG) signal (S) cable with multi-stranded copper wires (L), PVC insulation (Y), sheath made of flame retardant PVC (Yn) | |
| Cable marking | YnKGSLY 0,6/1 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 intended for use in signal, control, local communication and measurement units in mines: <ul style="list-style-type: none"> - open-pit mines outside of explosion hazard zones - underground mines in methane-free zones - underground mines within "A" class coal dust explosion 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;
- to use bare copper conductors.

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

91

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 |
| 1x0,75+0,75 | 0,21 | 7,4 | 50 | 7,4 | 50 | 9,7 | 84 |
| 2x0,75+0,75 | 0,21 | 7,9 | 64 | 7,9 | 64 | 10,2 | 101 |
| 3x0,75+0,75 | 0,21 | 8,4 | 81 | 8,4 | 81 | 10,9 | 125 |
| 4x0,75+0,75 | 0,21 | 9,1 | 98 | 9,1 | 98 | 11,7 | 148 |
| 6x0,75+0,75 | 0,21 | 9,9 | 121 | 9,9 | 121 | 12,6 | 177 |
| 9x0,75+0,75 | 0,21 | 12,4 | 168 | 12,4 | 168 | 15,5 | 242 |
| 11x0,75+0,75 | 0,21 | 12,8 | 194 | 12,8 | 194 | 16,0 | 274 |
| 13x0,75+0,75 | 0,21 | 13,4 | 221 | 13,4 | 221 | 16,7 | 308 |
| 18x0,75+0,75 | 0,21 | 14,9 | 287 | 14,9 | 287 | 18,5 | 393 |
| 20x0,75+0,75 | 0,21 | 15,7 | 334 | 15,7 | 335 | 19,5 | 455 |
| 23x0,75+0,75 | 0,21 | 17,4 | 359 | 17,4 | 359 | 21,4 | 487 |
| 26x0,75+0,75 | 0,21 | 17,8 | 396 | 17,8 | 396 | 21,9 | 533 |
| 29x0,75+0,75 | 0,21 | 18,5 | 435 | 18,5 | 435 | 22,6 | 582 |
| 32x0,75+0,75 | 0,21 | 19,2 | 474 | 19,2 | 475 | 23,5 | 632 |
| 36x0,75+0,75 | 0,21 | 20,0 | 526 | 20,0 | 526 | 24,4 | 696 |
| 1x1+1 | 0,21 | 7,6 | 57 | 7,6 | 57 | 9,9 | 91 |
| 2x1+1 | 0,21 | 8,1 | 73 | 8,1 | 73 | 10,5 | 112 |
| 3x1+1 | 0,21 | 8,7 | 94 | 8,7 | 94 | 11,1 | 139 |
| 4x1+1 | 0,21 | 9,4 | 114 | 9,4 | 114 | 12,0 | 166 |
| 6x1+1 | 0,21 | 10,2 | 142 | 10,2 | 142 | 12,9 | 200 |
| 9x1+1 | 0,21 | 12,8 | 198 | 12,8 | 198 | 16,0 | 274 |
| 11x1+1 | 0,21 | 13,2 | 229 | 13,2 | 229 | 16,4 | 312 |
| 13x1+1 | 0,21 | 13,9 | 261 | 13,9 | 261 | 17,2 | 353 |
| 18x1+1 | 0,21 | 15,4 | 342 | 15,4 | 342 | 19,0 | 452 |
| 20x1+1 | 0,21 | 16,3 | 397 | 16,3 | 397 | 20,0 | 523 |
| 23x1+1 | 0,21 | 18,1 | 428 | 18,1 | 428 | 22,1 | 561 |
| 26x1+1 | 0,21 | 18,5 | 474 | 18,5 | 474 | 22,5 | 616 |
| 29x1+1 | 0,21 | 19,1 | 521 | 19,1 | 521 | 23,3 | 674 |
| 32x1+1 | 0,21 | 19,9 | 568 | 19,9 | 568 | 24,4 | 732 |
| 36x1+1 | 0,21 | 20,7 | 631 | 20,7 | 631 | 25,3 | 808 |

| BUDOWA | | | | | | | |
|--|---------------------------------|------------------------------|-------------------------|------------------------------|-------------------------|------------------------------|-------------------------|
| 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 |
| 1x1,5+1,5 | 0,21 | 8,2 | 65 | 8,2 | 65 | 10,4 | 1,2 |
| 2x1,5+1,5 | 0,21 | 8,8 | 84 | 8,8 | 84 | 11,2 | 124 |
| 3x1,5+1,5 | 0,21 | 9,4 | 108 | 9,4 | 108 | 11,9 | 156 |
| 4x1,5+1,5 | 0,21 | 10,2 | 132 | 10,2 | 132 | 12,9 | 186 |
| 6x1,5+1,5 | 0,21 | 11,1 | 165 | 11,1 | 165 | 13,9 | 226 |
| 9x1,5+1,5 | 0,21 | 14,1 | 230 | 14,1 | 230 | 17,2 | 311 |
| 11x1,5+1,5 | 0,21 | 14,5 | 268 | 14,5 | 268 | 17,8 | 356 |
| 13x1,5+1,5 | 0,21 | 15,3 | 306 | 15,3 | 306 | 18,6 | 403 |
| 18x1,5+1,5 | 0,21 | 17,0 | 402 | 17,0 | 402 | 20,6 | 519 |
| 20x1,5+1,5 | 0,21 | 18,0 | 467 | 18,0 | 467 | 21,7 | 601 |
| 23x1,5+1,5 | 0,21 | 20,0 | 503 | 20,0 | 503 | 23,9 | 645 |
| 26x1,5+1,5 | 0,21 | 20,4 | 558 | 20,4 | 558 | 24,4 | 710 |
| 29x1,5+1,5 | 0,21 | 21,2 | 614 | 21,2 | 614 | 25,3 | 777 |
| 32x1,5+1,5 | 0,21 | 22,0 | 671 | 22,0 | 671 | 26,5 | 845 |
| 36x1,5+1,5 | 0,21 | 22,9 | 745 | 22,9 | 745 | 27,5 | 934 |
| 1x2,5+2,5 | 0,26 | 9,0 | 89 | 9,5 | 93 | 11,3 | 129 |
| 2x2,5+2,5 | 0,26 | 9,7 | 119 | 10,2 | 126 | 12,1 | 164 |
| 3x2,5+2,5 | 0,26 | 10,4 | 156 | 10,9 | 165 | 12,9 | 209 |
| 4x2,5+2,5 | 0,26 | 11,4 | 192 | 11,9 | 203 | 14,0 | 253 |
| 6x2,5+2,5 | 0,26 | 12,4 | 245 | 13,0 | 258 | 15,1 | 314 |
| 9x2,5+2,5 | 0,21 | 15,8 | 345 | 16,6 | 363 | 18,9 | 436 |
| 11x2,5+2,5 | 0,26 | 16,3 | 403 | 17,2 | 425 | 19,5 | 503 |
| 13x2,5+2,5 | 0,26 | 17,1 | 464 | 18,1 | 489 | 20,4 | 573 |
| 18x2,5+2,5 | 0,26 | 19,1 | 614 | 20,2 | 648 | 22,7 | 747 |
| 20x2,5+2,5 | 0,26 | 20,2 | 711 | 21,3 | 753 | 23,9 | 864 |
| 23x2,5+2,5 | 0,26 | 22,5 | 771 | 23,7 | 813 | 26,5 | 933 |
| 26x2,5+2,5 | 0,26 | 23,0 | 858 | 24,3 | 905 | 27,0 | 1031 |
| 29x2,5+2,5 | 0,26 | 23,8 | 947 | 25,2 | 999 | 28,0 | 1133 |
| 32x2,5+2,5 | 0,26 | 24,8 | 1037 | 26,2 | 1094 | 29,3 | 1236 |
| 36x2,5+2,5 | 0,26 | 25,8 | 1155 | 27,3 | 1218 | 30,5 | 1383 |
| 1x4+4 | 0,31 | 10,5 | 128 | 10,9 | 133 | 13,2 | 180 |
| 2x4+4 | 0,31 | 11,3 | 176 | 11,8 | 183 | 14,2 | 237 |
| 3x4+4 | 0,31 | 12,2 | 233 | 12,7 | 243 | 15,2 | 306 |
| 4x4+4 | 0,31 | 13,4 | 289 | 13,9 | 302 | 16,5 | 374 |
| 6x4+4 | 0,31 | 14,6 | 373 | 15,2 | 388 | 18,0 | 471 |
| 9x4+4 | 0,31 | 18,7 | 527 | 19,5 | 549 | 22,7 | 660 |
| 11x4+4 | 0,31 | 19,3 | 621 | 20,2 | 647 | 23,4 | 767 |
| 13x4+4 | 0,31 | 20,4 | 717 | 21,3 | 746 | 24,6 | 879 |
| 18x4+4 | 0,31 | 22,8 | 955 | 23,8 | 995 | 27,4 | 1157 |
| 20x4+4 | 0,31 | 24,1 | 1105 | 25,3 | 1154 | 29,0 | 1341 |
| 23x4+4 | 0,31 | 27,1 | 1213 | 28,4 | 1263 | 32,3 | 1463 |
| 26x4+4 | 0,31 | 29,0 | 1364 | 30,3 | 1421 | 34,5 | 1636 |
| 29x4+4 | 0,31 | 29,0 | 1506 | 30,3 | 1569 | 34,5 | 1800 |
| 32x4+4 | 0,31 | 30,4 | 1662 | 31,8 | 1731 | 36,1 | 1981 |
| 36x4+4 | 0,31 | 31,6 | 1852 | 33,1 | 1929 | 37,5 | 2200 |