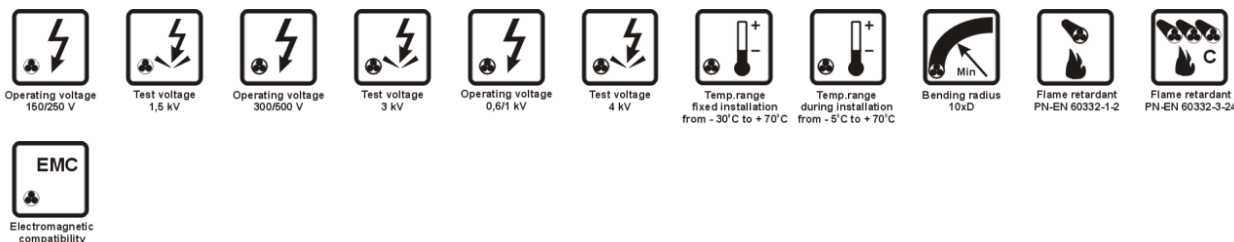


YnHKGSly

MINING CONTROL CABLES



APPLICATIONS

YnHKGSly 150/250 V, **YnHKGSly 300/500 V** and **YnHKGSly 0,6/1 kV** are mining control cables with individually shielded wires intended for control, communication, measuring and monitoring systems in mines.

Cables can be applied in:

- opencast and underground mines, except explosive condition zones.
- underground mines in their non-methane and methane fields in areas of „a”, „b” or „c” degree explosion hazard.
- underground mines in workings of class A or B coal dust explosion hazard.
- intrinsically safe circuits in opencast and underground mines in explosion hazardous areas.
- intrinsically safe circuits in underground mines in areas classified as „a”, „b”, or „c” degree explosion hazard.

Cables can not be used for power supplying in power engineering installations..

Cables have positive **Technical Opinion No. 05/53** regarding application in underground mines and **Certificates No. 05/53/A1/2** and **05/53/A2/2** issued by **TI EMAG Institute**.

CONSTRUCTION

- flexible, multiwire conductors, stranded of bare annealed copper wires (tin-plated on request), meeting requirements of class 5 per PN-EN 60228,
- PVC insulation, colours of insulation:

Number of conductors	Colours of insulation	
	protective conductor	insulated conductors
3	green-yellow	black and blue
4	green-yellow	black, blue and brown
5	green-yellow	black, blue, brown and black
> 5	green-yellow	black and white conductor number printed on it

- tinned copper wire braid shield of coverage bigger than 70% on insulated conductors (bare copper wire braid available on request),
- shielded conductors laid-up in layers into a cable core, cables are made of 3, 4, 5, 7, 10, 12, 14, 16, 19, 24, 27, 30, 33, 37, 40, 48, 52, 56 and 61 conductors,
- cable core wrapped in polyester tape,
- special (oxygen index bigger than 29%) PVC cable sheath, black (RAL 9005) or blue (RAL 5015 - for intrinsically safe circuits), other colours also available.

AVAILABLE UPON REQUEST

YnHKGSly - polyethylene insulated cables (X) of low capacitance, designed to transmit signals over long distances. Cable sheath made of special self-extinguishing and flame retardant PVC (Yn).

XnHKGSly - halogen free cables of reduced combustibility, sheathed with special halogen free material (Xn), applied when higher safety in case of fire is required. The cables are flame retardant, their smoke emission in fire is low and released gases are not corrosive.

YnHKGSly

CHARACTERISTICS

Conductor cross-section	mm ²	1.0	1.5	2.5	4
DC conductor resistance at 20°C, maximum	Ω/km	19.5	13.3	7.98	4.95
Operating voltage U _o /U	V	150/250	300/500	600/1000	
Voltage test	V rms	1500	3000	4000	
Insulation resistance, minimum	MΩ·km	20	20	100	

Inductance, approximate 0.7 mH/km
 Conductor temperature limit in work conditions from - 30 to + 70°C
 in short-circuit from - 5 to + 70°C

Minimum bending radius 10 x cable diameter
 Cable combustibility flame retardant
 Combustibility tests PN-EN 60332-1-2, IEC 60332-1-2
 PN-EN 60332-3-24, IEC 60332-3-24 (cat. C)
 Reference standards WT-TK-22

CE = the cable meets requirements of the low voltage directive 2014/35/EU

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index
150/250 V	mm ²	mm	kg/km
0925 004	2 x 1 + 1	8.5	101
0925 015	4 x 1 + 1	9.9	152
0925 013	6 x 1 + 1	10.7	192
0925 014	9 x 1 + 1	13.3	275
0925 016	13 x 1 + 1	14.4	355
0925 017	23 x 1 + 1	18.9	590
0925 003	26 x 1 + 1	19.2	650
0925 008	2 x 1.5 + 1.5	9.6	129
0925 018	4 x 1.5 + 1.5	11.3	199
0925 007	6 x 1.5 + 1.5	12.2	255
0925 019	9 x 1.5 + 1.5	15.3	360

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index
300/500 V	mm ²	mm	kg/km
1015 004	2 x 1 + 1	9.3	100
1015 007	4 x 1 + 1	11.0	176
1015 021	6 x 1 + 1	11.9	225
1015 003	9 x 1 + 1	14.9	315
1015 029	13 x 1 + 1	16.1	410
1015 010	23 x 1 + 1	21.0	680
1015 008	24 x 1 + 1	21.8	705
1015 017	36 x 1 + 1	23.1	840
1015 022	2 x 1.5 + 1.5	9.4	110
1015 009	3 x 1.5 + 1.5	10.3	150
1015 023	4 x 1.5 + 1.5	11.2	180
1015 012	6 x 1.5 + 1.5	12.2	230
1015 013	9 x 1.5 + 1.5	15.7	360
1015 028	11 x 1.5 + 1.5	16.2	430
1015 014	13 x 1.5 + 1.5	17.1	490
1015 001	18 x 1.5 + 1.5	19.0	620

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index
0.6/1 kV	mm ²	mm	kg/km
1044 008	2 x 1 + 1	9.5	110
1044 018	3 x 1 + 1	10.1	130
1044 012	4 x 1 + 1	11.0	255
1044 010	6 x 1 + 1	12.0	210
1044 014	9 x 1 + 1	15.5	300
1044 015	13 x 1 + 1	16.8	390
1044 019	18 x 1 + 1	19.5	550
1044 016	23 x 1 + 1	24.1	810
1044 004	29 x 1 + 1	24.8	890
1044 020	2 x 1.5 + 1.5	9.8	120
1044 021	3 x 1.5 + 1.5	11.3	170
1044 007	4 x 1.5 + 1.5	12.3	210
1044 005	6 x 1.5 + 1.5	13.0	250

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index
150/250 V	mm ²	mm	kg/km
0925 011	13 x 1.5 + 1.5	16.6	470
0925 005	2 x 2.5 + 2.5	10.4	168
0925 006	4 x 2.5 + 2.5	12.4	265
0925 020	6 x 2.5 + 2.5	13.4	340
0925 021	9 x 2.5 + 2.5	16.9	485
0925 022	2 x 4 + 4	12.2	240
0925 023	4 x 4 + 4	14.5	380
0925 024	6 x 4 + 4	15.8	495
0925 025	9 x 4 + 4	20.5	725

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index
300/500 V	mm ²	mm	kg/km
1015 018	23 x 1.5 + 1.5	23.1	850
1015 024	26 x 1.5 + 1.5	23.6	930
1015 025	29 x 1.5 + 1.5	24.5	1030
1015 026	32 x 1.5 + 1.5	25.4	1120
1015 030	36 x 1.5 + 1.5	26.4	1250
1015 031	2 x 2.5 + 2.5	10.7	160
1015 032	3 x 2.5 + 2.5	11.2	200
1015 020	4 x 2.5 + 2.5	12.5	250
1015 027	6 x 2.5 + 2.5	13.6	340
1015 033	9 x 2.5 + 2.5	17.3	480
1015 034	2 x 4 + 4	13.0	260
1015 035	4 x 4 + 4	15.6	410
1015 036	6 x 4 + 4	17.0	535
1015 037	9 x 4 + 4	21.7	700
1015 038	11 x 4 + 4	22.1	760
1015 039	13 x 4 + 4	23.4	950

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index
0.6/1 kV	mm ²	mm	kg/km
1044 006	9 x 1.5 + 1.5	16.5	360
1044 017	13 x 1.5 + 1.5	18.3	500
1044 022	18 x 1.5 + 1.5	20.4	660
1044 003	2 x 2.5 + 2.5	11.7	194
1044 001	3 x 2.5 + 2.5	12.4	215
1044 023	4 x 2.5 + 2.5	13.5	360
1044 013	6 x 2.5 + 2.5	14.3	350
1044 024	9 x 2.5 + 2.5	18.6	490
1044 025	13 x 2.5 + 2.5	20.2	620
1044 026	2 x 4 + 4	13.9	280
1044 027	4 x 4 + 4	16.7	445
1044 028	6 x 4 + 4	18.6	595
1044 029	9 x 4 + 4	24.1	870

Other cross-sections and conductor counts available on request.
 TECHNOKABEL S.A. reserves the right to change specifications without prior notice.