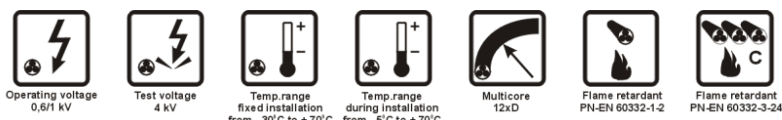


YnKGY-žo 0,6/1 kV

MINING POWER CABLES



APPLICATIONS

YnKGY-žo 0,6/1 kV are mining power cables intended to work in power engineering installations.

Cables can be applied in:

- opencast and underground mines, except explosive condition zones,
- underground mines in workings of class A coal dust explosion hazard.

Cables have positive **Technical Opinion No. 2242/2011** regarding application in underground mines and **Certificate No. 2242/A1/2011** issued by **TI EMAG Institute**.

CONSTRUCTION

- bare annealed copper conductors, meeting requirements of class 1 or 2 per PN-EN 60228,
- PVC insulation, colours of insulation:

Number of conductors	Colours of insulation	
	protective conductor	insulated conductors
3	green-yellow	natural and red
4	green-yellow	natural, red and blue
5	green-yellow	natural, red, blue and black

- insulated conductors laid-up into a cable core,
- special (oxygen index bigger than 29%) PVC cable sheath, yellow, other colours also available.

CHARACTERISTICS

Operating voltage U _o /U	0.6/1 kV	Temperature range	
Voltage test	4 kV rms	during operation	from - 30 to + 70°C
Conductor temperature limit		during installation	from - 5 to + 70°C
in work conditions	+ 70°C	Minimum bending radius	12 x cable diameter
in short-circuit	+ 160°C	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-27

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	Cable weight (appr.)	DC conductor resistance at 20°C, maximum	Inductance, approximate	Inductive reactance	Current carrying capacity	Short-circuit current rating for 1 sec*
	mm ²	mm	kg/km	kg/km	Ω/km	mH/km	Ω/km	A	kA
1385 004	3 x 1,5	10.5	43.2	160	12.1	0.36	0.103	19	0.17
1385 005	4 x 1,5	11.4	58.0	190	12.1	0.36	0.103	19	0.17
1385 009	5 x 1,5	12.6	72.0	230	12.1	0.36	0.103	19	0.17
1385 001	3 x 2,5	12.0	72.0	205	7.41	0.33	0.097	27	0.29
1385 002	4 x 2,5	12.9	96.0	250	7.41	0.33	0.097	27	0.29
1385 003	5 x 2,5	13.7	120.0	300	7.41	0.33	0.097	27	0.29
1385 006	3 x 4	14.5	115.0	310	4.61	0.30	0.098	37	0.46
1385 004	4 x 4	15.5	154.0	370	4.61	0.30	0.098	37	0.46
1385 012	5 x 4	16.4	192.0	440	4.61	0.30	0.098	37	0.46

* 1 second short-circuit current rating is calculated assuming that the temperature of power conductors during short-circuit equals the maximum conductor operating temperature under normal conditions.

Other cross-sections and conductor counts available on request.

TECHNOKABEL S.A. reserves the right to change specifications without prior notice.