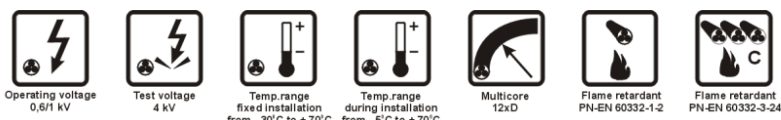


YKGYyn-žo 0,6/1 kV

MINING POWER CABLES



APPLICATIONS

YKGYyn-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,
- inner covering on cable core, PVC or unvulcanised rubber,
- 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
1730 001	3 x 1,5	14.1	43.2	275	12.1	0.36	0.103	19	0.17
1730 002	4 x 1,5	15.0	58.0	310	12.1	0.36	0.103	19	0.17
1730 003	5 x 1,5	16.2	72.0	350	12.1	0.36	0.103	19	0.17
1730 004	3 x 2,5	15.6	72.0	325	7.41	0.33	0.097	27	0.29
1730 005	4 x 2,5	16.5	96.0	370	7.41	0.33	0.097	27	0.29
1730 006	5 x 2,5	17.3	120.0	460	7.41	0.33	0.097	27	0.29
1730 007	3 x 4	18.1	115.0	470	4.61	0.30	0.098	37	0.46
1730 008	4 x 4	19.1	154.0	530	4.61	0.30	0.098	37	0.46
1730 009	5 x 4	20.0	192.0	600	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.