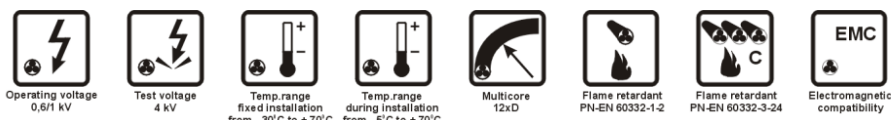


YHKG Yekyn 0,6/1 kV

MINING POWER CABLES



APPLICATIONS

YHKG Yekyn 0,6/1 kV are mining power cables with individually shielded wires intended to work in power engineering installations.

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.

Cables have positive **Technical Opinion No. 2242/2011** regarding application in underground mines and **Certificates No. 2242/A1/2011** and **2242/A2/2011** 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: natural, red and blue,
- copper tape shield,
- copper single wire or multiwire conductor as a central element,
- shielded conductors laid-up around the central element,
- inner covering on cable core, PVC or unvulcanised rubber,
- PVC inner sheath,
- copper tape shield,
- special (oxygen index bigger than 29%) PVC cable sheath, yellow, other colours also available.

CHARACTERISTICS

Operating voltage U ₀ /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
1381 003	3 x 10/6	26.2	426	1220	1.830	0.30	0.098	68	1.15
1381 004	3 x 16/16	27.9	714	1480	1.150	0.30	0.094	88	1.84
1381 005	3 x 25/16	32.0	984	1960	0.727	0.28	0.089	116	2.88
1381 001	3 x 35/16	33.1	1290	2190	0.524	0.28	0.087	140	4.03
1381 006	3 x 50/16	37.1	1722	3080	0.387	0.28	0.084	170	5.75
1381 002	3 x 70/25	40.8	2396	3660	0.268	0.26	0.081	212	8.05
1381 007	3 x 95/25	46.2	3242	5120	0.193	0.24	0.080	259	10.93
1381 008	3 x 120/35	50.2	4116	6080	0.153	0.24	0.078	299	13.80

* 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.