

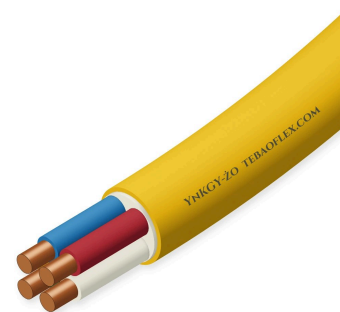


PN-G-90006 Polish Underground Mining Power & Control Cables (YnOGY / YKGY / YHKGY)

YnKGY-žo

Cable

PN-G-90006 0.6/1 kV flexible Cu (G), PVC-insulated (Y), FR-PVC (Yn) mining power cable



PN-G-90006 · YnKGY-žo

0.6/1 kV · Class 5 Flexible Cu (G)

With Green-Yellow Core (-žo) + Yn PVC

Application

YnKGY-žo Cable is a Polish-standard (PN-G-90006) 0.6/1 kV flexible underground mining power and control cable ('K') constructed with Class 5 flexible copper conductors ('G') including a dedicated green-yellow protective earth conductor ('-žo'), PVC core

Typical uses: Underground coal, copper & zinc-lead mines, Movable roadway transformer & switchgear skids, Underground dewatering pumps & auxiliary fans, Mining lighting, interlocking & control networks

Construction



Cross-section, not to scale

1	Flexible Class 5 copper conductor (G)	PN-G-90006 / PN-EN 60228
2	PVC core insulation (Y) with -žo core	PN-G-90006 / HD 308 S2
3	Inner PVC filler bedding	PN-G-90006
4	Flame-retardant mining PVC outer	PN-G-90006 / PN-EN 60332-1-2

Technical data

Typical values

Rated voltage U ₀ /U	0.6/1 kV AC (600/1000 V)	AC dielectric test voltage	3,500 V AC for 5 minutes
Max. conductor operating temp.	+70 °C continuous · +160 °C short-circuit	Min. insulation resistance @ 20 °C	≥ 20 MΩ·km
Operating temperature range	-25 °C to +70 °C (fixed) · -5 °C to +70 °C	Minimum installation temp.	-5 °C
Min. bending radius	8 × D (fixed) · 12 × D (during repositioning)	Gland sealing profile	Extruded inner filler bedding ensures
Flame retardance	PN-EN 60332-1-2 & PN-G-04035 mining flame	Mine water & oil resistance	Resistant to acidic/saline mine water and
Standards	PN-G-90006 · ZN-TF / WUG underground mining		

Sizes

6 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Cores × Size	Main cross-section	Outer Ø ≈ mm	Copper kg/km	Weight ≈ kg/km	Min. bend R fixed mm
Standard YnKGY-žo configurations 6 sizes						
☐ YnKGY-žo 3 × 2.5 mm ² 0.6/1 kV	3G 2.5 mm ²	2.5 mm ²	12.0	72	210	96
☐ YnKGY-žo 5 × 4.0 mm ² 0.6/1 kV	5G 4.0 mm ²	4.0 mm ²	16.2	192	415	130
☐ YnKGY-žo 5 × 10 mm ² 0.6/1 kV	5G 10 mm ²	10.0 mm ²	21.8	480	845	174
☐ YnKGY-žo 4 × 25 mm ² 0.6/1 kV	4G 25 mm ²	25.0 mm ²	27.6	960	1,490	221
☐ YnKGY-žo 4 × 50 mm ² 0.6/1 kV	4G 50 mm ²	50.0 mm ²	35.8	1,920	2,680	286
☐ YnKGY-žo 4 × 95 mm ² 0.6/1 kV	4G 95 mm ²	95.0 mm ²	46.4	3,648	4,780	371

– Outer diameters and weights are nominal factory values subject to ±5 % manufacturing tolerance per PN-G-90006 / ZN-TF (YnKGY-žo 0.6/1 kV Flexible Underground Mining Power Cable).

Electrical & ampacity

6 sizes

Configuration	Max. DC R @ 20 °C Ω/km	I _z free air A	I _z tray / duct A	I _{sc} (1 s) kA	Voltage drop mV/A/m	Dielectric test V
3G 2.5 mm ²	7.98	25	23	0.29	17.50	3,500
5G 4.0 mm ²	4.95	34	31	0.46	10.90	3,500
5G 10 mm ²	1.91	60	54	1.15	4.20	3,500
4G 25 mm ²	0.78	102	92	2.88	1.72	3,500
4G 50 mm ²	0.39	154	139	5.75	0.86	3,500
4G 95 mm ²	0.21	232	209	10.93	0.46	3,500

– Conductor DC resistance at +20 °C per IEC 60228 and reference current ratings at 30 °C ambient per PN-G-90006 / ZN-TF (YnKGY-žo 0.6/1 kV Flexible Underground Mining Power Cable).

Standards and approvals

- ✓ PN-G-90006
- ✓ PN-EN 60332-1-2
- ✓ CE / WUG Compliant

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/ynkgy-zo-cable



Typical values for this cable type, based on PN-G-90006 / ZN-TF (YnKGY-zo 0.6/1 kV Flexible Underground Mining Power Cable). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.