

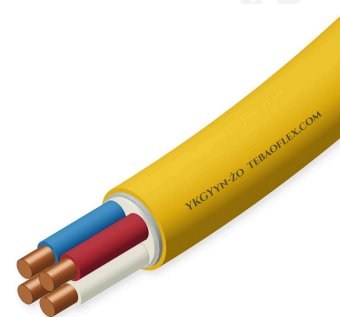


PN-G-90006 Polish Underground Mining Power & Control Cables (YnOGY / YKGY / YHKGY)

YKGYyn-žo

Cable

PN-G-90006 0.6/1 kV PVC-insulated (Y), Class 5 Cu (G), PVC inner sheath (Y) & FR-PVC



PN-G-90006 · YKGYyn-žo

0.6/1 kV · Class 5 Flexible Cu (G)

PVC Inner (Y) + FR-PVC Outer (yn)

Application

YKGYyn-žo Cable is a Polish-standard (PN-G-90006 / PN-E-90401) 0.6/1 kV unarmoured double-sheathed underground mining power and control cable ('K') constructed with flexible Class 5 copper conductors ('G') including a green-yellow protective core ('-žo')

Typical uses: Underground coal & copper mine galleries, Flameproof gate-end box & motor feeders, Underground lighting & signalling trunks, Mine preparation & shaft-bottom substations

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	Extruded PVC inner sheath (Y)	PN-G-90006
4	Flame-retardant mining PVC outer	PN-G-90006 / PN-EN 60332-1-2

Technical data

Typical values

Rated voltage U0/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 × overall diameter (D)	Sheath construction	Double extruded sheath: PVC inner ('Y') +
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 · PN-E-90401 · WUG underground		

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 YKGYyn-žo configurations 6 sizes						
☐ YKGYyn-žo 5 × 2.5 mm² 0.6/1 kV	5G 2.5 mm²	2.5 mm²	14.6	120	325	117
☐ YKGYyn-žo 4 × 6.0 mm² 0.6/1 kV	4G 6.0 mm²	6.0 mm²	17.2	230	490	138
☐ YKGYyn-žo 4 × 16 mm² 0.6/1 kV	4G 16 mm²	16.0 mm²	23.8	614	1,040	190
☐ YKGYyn-žo 4 × 35 mm² 0.6/1 kV	4G 35 mm²	35.0 mm²	31.4	1,344	1,960	251
☐ YKGYyn-žo 4 × 70 mm² 0.6/1 kV	4G 70 mm²	70.0 mm²	41.2	2,688	3,580	330
☐ YKGYyn-žo 4 × 120 mm² 0.6/1 kV	4G 120 mm²	120.0 mm²	51.8	4,608	5,890	414

– Outer diameters and weights are nominal factory values subject to ±5 % manufacturing tolerance per PN-G-90006 / PN-E-90401 (YKGYyn-žo 0.6/1 kV Double-Sheathed Mining Power Cable).

Electrical & ampacity

6 sizes

Configuration	Max. DC R @ 20 °C Ω/km	Iz free air A	Iz tray / duct A	Isc (1 s) kA	Voltage drop mV/A/m	Dielectric test V
5G 2.5 mm²	7.98	25	23	0.29	17.50	3,500
4G 6.0 mm²	3.30	42	38	0.69	7.30	3,500
4G 16 mm²	1.21	77	70	1.84	2.70	3,500
4G 35 mm²	0.55	126	114	4.03	1.25	3,500
4G 70 mm²	0.27	195	176	8.05	0.62	3,500
4G 120 mm²	0.16	272	245	13.80	0.37	3,500

– Conductor DC resistance at +20 °C per IEC 60228 and reference current ratings at 30 °C ambient per PN-G-90006 / PN-E-90401 (YKGYyn-žo 0.6/1 kV Double-Sheathed Mining Power Cable).

Standards and approvals

✓ PN-G-90006 / PN-E-90401

✓ 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/ykgyn-zo-cable



Typical values for this cable type, based on PN-G-90006 / PN-E-90401 (YKGYyn-zo 0.6/1 kV Double-Sheathed 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.