



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

YKGYFoyn / YKGYFoyn-žo

Steel-Wire Armoured PVC Mining Cable

PN-G-90006 0.6/1 kV PVC-insulated (Y), Cu (G), round galvanized steel-wire armoured



PN-G-90006 · YKGYFoyn / -žo

0.6/1 kV · Round Steel-Wire Armour (Fo)

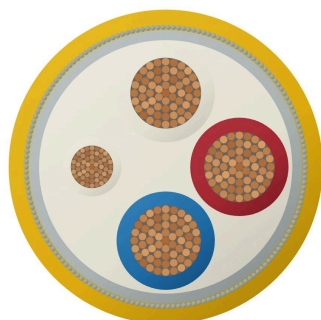
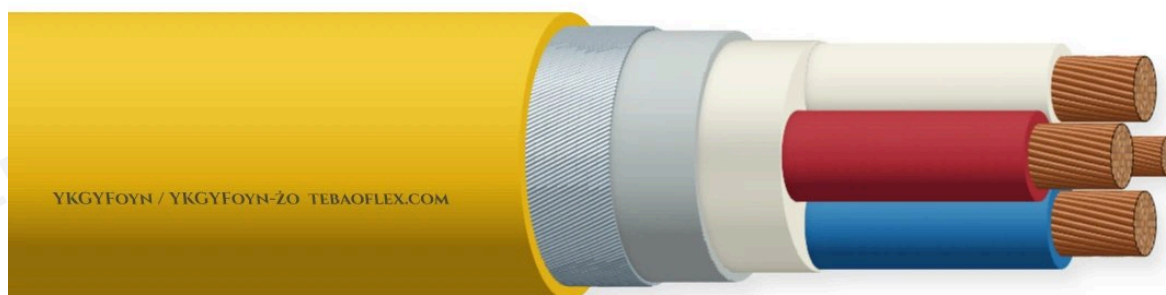
Inclined Drift & Shaft Tensile Duty

Application

YKGYFoyn / YKGYFoyn-žo Steel-Wire Armoured PVC Mining Cable is a Polish-standard (PN-G-90006) 0.6/1 kV underground mine shaft, inclined drift, and high-convergence roadway power and control cable constructed with Class 5/2 copper conductors ('G', with or

Typical uses: Vertical mine shafts & steep inclined drifts, Subsiding coal & copper mining roadways, Pit-bottom dewatering pump stations, Underground haulage & winder power supply

Construction



Cross-section, not to scale

1	Multi-wire stranded copper conductor (G)	PN-G-90006 / PN-EN 60228
2	PVC core insulation (Y)	PN-G-90006
3	Extruded PVC inner bedding (Y)	PN-G-90006
4	Galvanized round steel wire armour (Fo)	PN-G-90006 / PN-EN 10257-1
5	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 installation)	Minimum installation temp.	-5 °C
Min. bending radius	10 × overall diameter (D) for round-wire	Armour type	Galvanized round steel wires ('Fo', pancerz)
Flame retardance	PN-EN 60332-1-2 & PN-G-04035 mining flame	Tensile & impact resistance	High axial tensile load capacity for
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 YKGYFoyn / YKGYFoyn-žo configurations 6 sizes						
☐ YKGYFoyn-žo 5 × 4.0 mm ² 0.6/1 kV	5G 4.0 mm ²	4.0 mm ²	20.6	192	890	206
☐ YKGYFoyn-žo 5 × 10 mm ² 0.6/1 kV	5G 10 mm ²	10.0 mm ²	26.2	480	1,490	262
☐ YKGYFoyn 4 × 25 mm ² 0.6/1 kV	4 × 25 mm ²	25.0 mm ²	31.8	960	2,280	318
☐ YKGYFoyn 4 × 50 mm ² 0.6/1 kV	4 × 50 mm ²	50.0 mm ²	40.4	1,920	3,790	404
☐ YKGYFoyn 4 × 95 mm ² 0.6/1 kV	4 × 95 mm ²	95.0 mm ²	51.6	3,648	6,380	516
☐ YKGYFoyn 4 × 150 mm ² 0.6/1 kV	4 × 150 mm ²	150.0 mm ²	61.4	5,760	9,350	614

– Outer diameters and weights are nominal factory values subject to ±5 % manufacturing tolerance per PN-G-90006 / PN-E-90401 (YKGYFoyn / YKGYFoyn-žo 0.6/1 kV Steel-Wire Armoured Mining 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 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
4 × 25 mm ²	0.78	102	92	2.88	1.72	3,500
4 × 50 mm ²	0.39	154	139	5.75	0.86	3,500
4 × 95 mm ²	0.21	232	209	10.93	0.46	3,500
4 × 150 mm ²	0.13	310	279	17.25	0.29	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 (YKGYFoyn / YKGYFoyn-žo 0.6/1 kV Steel-Wire Armoured Mining 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/ykgyfoyn-ykgyfoyn-zo-steel-wire-armoured-pvc-mining-cable



Typical values for this cable type, based on PN-G-90006 / PN-E-90401 (YKGYFoyn / YKGYFoyn-zo 0.6/1 kV Steel-Wire Armoured Mining Cable). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.