



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

YHKGyFoyn

Screened Steel-Wire Armoured PVC Mining Cable

PN-G-90006 0.6/1 kV, 3.6/6 kV & 6/10 kV H-screened, round steel-wire armoured (Fo)



PN-G-90006 · YHKGyFoyn

0.6/1 kV, 3.6/6 kV & 6/10 kV

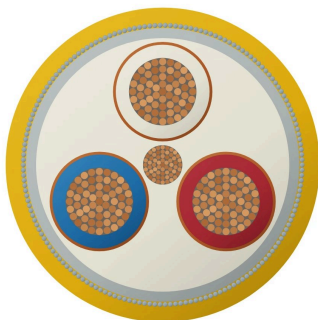
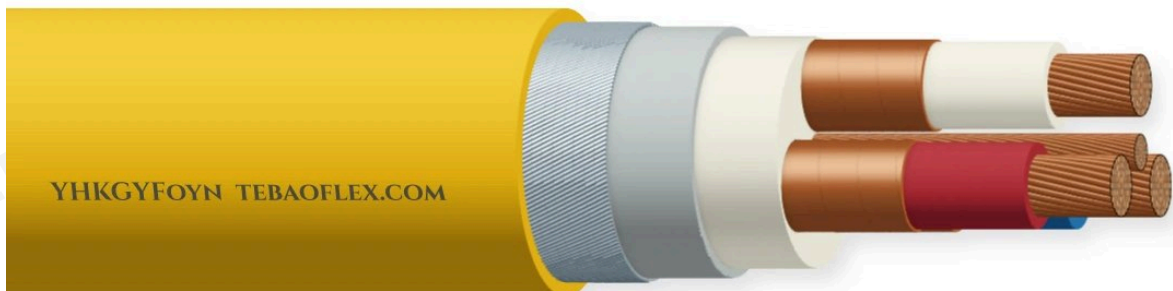
H-Screened + Round Steel-Wire Armour (Fo)

Application

YHKGyFoyn Screened Steel-Wire Armoured PVC Mining Cable is the heavy-duty Polish-standard (PN-G-90006) underground mine shaft, steep inclined drift, and high-convergence roadway trunk cable rated for 0.6/1 kV, 3.6/6 kV, and 6/10 kV networks, combining

Typical uses: Vertical mine shafts & steep inclined drifts, 6 kV & 10 kV underground coal & copper trunk mains, Subsiding mining ground & tectonic fault zones, Main pit-bottom dewatering & haulage substations

Construction



Cross-section, not to scale

1	Multi-wire stranded copper conductor (G)	PN-G-90006 / PN-EN 60228
2	PVC insulation (Y) with H semi-con	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 U ₀ /U	0.6/1 kV · 3.6/6 kV · 6/10 kV AC
Max. conductor operating temp.	+70 °C continuous · +160 °C short-circuit
Operating temperature range	-25 °C to +70 °C (fixed installation)
Min. bending radius	12 × D (0.6/1 kV) · 15 × D (3.6/6 kV & 6/10)
Flame retardance	PN-EN 60332-1-2 & PN-G-04035 mining flame
Standards	PN-G-90006 · ZN-TF / WUG underground mining

AC dielectric test voltage	3.5 kV (1 kV) · 11 kV (6 kV) · 17 kV (10 kV)
Screening system	H-type semi-conductive/metallic screen per
Minimum installation temp.	-5 °C
Armour type	Galvanized round steel wires ('Fo') for
Tensile & crush resistance	High longitudinal tensile capacity + radial

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 YHKGyFoyN configurations 6 sizes						
☐ YHKGyFoyN 4 × 25 mm ² 0.6/1 kV	4 × 25 mm ² (0.6/1 kV)	25.0 mm ²	33.4	1,010	2,490	401
☐ YHKGyFoyN 3 × 35 mm ² 3.6/6 kV	3 × 35 mm ² (3.6/6 kV)	35.0 mm ²	40.8	1,120	3,280	490
☐ YHKGyFoyN 3 × 50 mm ² 3.6/6 kV	3 × 50 mm ² (3.6/6 kV)	50.0 mm ²	44.6	1,580	4,020	535
☐ YHKGyFoyN 3 × 70 mm ² 3.6/6 kV	3 × 70 mm ² (3.6/6 kV)	70.0 mm ²	48.8	2,190	5,040	586
☐ YHKGyFoyN 3 × 120 mm ² 3.6/6 kV	3 × 120 mm ² (3.6/6 kV)	120.0 mm ²	58.2	3,690	7,540	698
☐ YHKGyFoyN 3 × 150 mm ² 6/10 kV	3 × 150 mm ² (6/10 kV)	150.0 mm ²	66.0	4,620	9,480	792

– Outer diameters and weights are nominal factory values subject to ±5 % manufacturing tolerance per PN-G-90006 / ZN-TF (YHKGyFoyN 0.6/1 kV to 6/10 kV Screened Steel-Wire Armoured Mining 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
4 × 25 mm ² (0.6/1 kV)	0.78	102	92	2.88	1.72	3,500
3 × 35 mm ² (3.6/6 kV)	0.55	135	122	4.03	1.22	11,000
3 × 50 mm ² (3.6/6 kV)	0.39	162	146	5.75	0.84	11,000
3 × 70 mm ² (3.6/6 kV)	0.27	202	182	8.05	0.60	11,000
3 × 120 mm ² (3.6/6 kV)	0.16	280	252	13.80	0.36	11,000
3 × 150 mm ² (6/10 kV)	0.13	318	286	17.25	0.29	17,000

– Conductor DC resistance at +20 °C per IEC 60228 and reference current ratings at 30 °C ambient per PN-G-90006 / ZN-TF (YHKGyFoyN 0.6/1 kV to 6/10 kV Screened Steel-Wire Armoured Mining 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/yhkggyfoyn-screened-steel-wire-armoured-pvc-mining-cable



Typical values for this cable type, based on PN-G-90006 / ZN-TF (YHKGyFoyn 0.6/1 kV to 6/10 kV Screened 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.