



PN-G-90006 Fo shaft wire-armoured cable

YHKGXSFOyn

Cable

Polish 3.6/6 kV XLPE (XS) galvanized round-steel-wire armoured (Fo) shaft mining cable



PN-G-90006 · 3.6/6 kV

XLPE (XS) + Fo Round Wire Armour

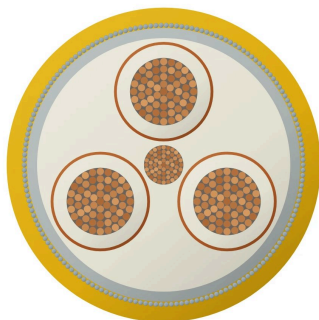
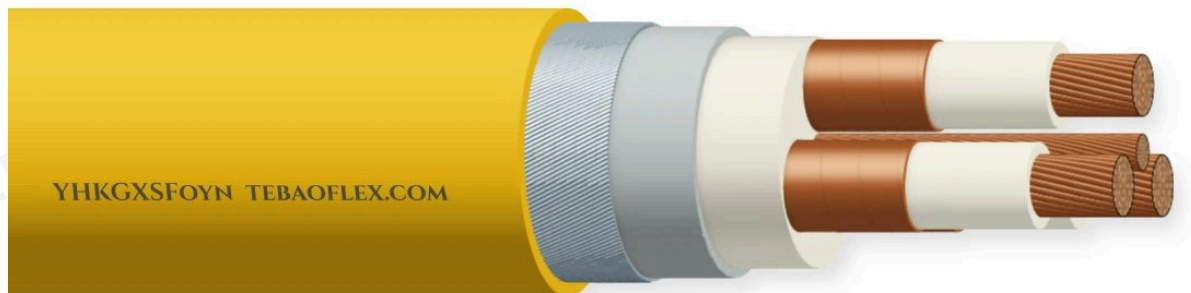
45°-90° Vertical Mine Shafts

Application

High-tensile Polish underground mining medium-voltage cable (YHKGXSFOyn) built to PN-G-90006 with +90 °C XLPE (XS) core insulation, anti-slump inner bedding, galvanized round steel wire armour (Fo) with counter-helix binder tape and red flame-retardant.

Typical uses: Vertical Mine Hoisting & Ventilation Shafts, Deep Coal & Copper Mine Main Feeders, Steep Inclined Haulage Drifts (45°-90°), Subsurface Pumped-Storage & Dewatering Shafts

Construction



Cross-section, not to scale

- 1 Compacted stranded bare copper (RMC)
- 2 Cross-linked polyethylene (XS / XLPE)
- 3 Pressure-extruded anti-slump PVC inner bedding (Y)
- 4 Galvanized round steel wire armour (Fo) + binder tape
- 5 Flame-retardant mining PVC outer sheath (yn)

Technical data

Typical values

Rated voltage (U_0/U)	3.6/6 kV ($U_{max} = 7.2$ kV) · also 6/10 kV (YHKGXSFoyn)	50 Hz AC test voltage (5 min)	11 kV AC rms
Max. conductor DC resistance @ 20 °C	0.727 Ω /km (25 mm ²) to 0.0754 Ω /km (240 mm ²)	Max. conductor operating temperature	+90 °C continuous · +250 °C short-circuit (max. 5 s)
Ambient temperature range	−30 °C to +70 °C (fixed) · −5 °C to +50 °C (installation)	Armour construction (Fo)	Galvanized round steel wires (Ø 2.5–4.0 mm, tensile 350–500 N/mm ²)
Permissible roadway / shaft inclination	0° to 90° vertical (mandatory for > 45° inclines and vertical shafts)	Minimum bending radius	15 × OD (fixed installation)
Flame retardance	PN-EN 60332-1-2 & PN-EN 60332-3-22 Cat A (OI ≥ 29 %)	Saline shaft-water resistance	Heavy zinc-coated armour wires + water-blocking ym PVC jacket
Standards	PN-G-90006, PN-93/E-90401 & IEC 60502-2		

Sizes

9 standard constructions

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

Order designation	Cross-section	Voltage	Outer Ø ≈ mm	Copper kg/km	Weight ≈ kg/km	In air 25 °C A	Min. bend R mm
3.6/6 kV Round-Steel-Wire Armoured XLPE Shaft Mining Cables (YHKGXSFoyn) 9 sizes							
☐ YHKGXSFoyn 3×25 3.6/6kV	3×25 mm ²	3.6/6 kV	36.5	675	2,580	132	548
☐ YHKGXSFoyn 3×35 3.6/6kV	3×35 mm ²	3.6/6 kV	39.2	945	3,060	160	588
☐ YHKGXSFoyn 3×50 3.6/6kV	3×50 mm ²	3.6/6 kV	42.6	1,350	3,760	194	639
☐ YHKGXSFoyn 3×70 3.6/6kV	3×70 mm ²	3.6/6 kV	46.8	1,890	4,690	240	702
☐ YHKGXSFoyn 3×95 3.6/6kV	3×95 mm ²	3.6/6 kV	51.2	2,565	5,780	288	768
☐ YHKGXSFoyn 3×120 3.6/6kV	3×120 mm ²	3.6/6 kV	54.8	3,240	6,810	332	822
☐ YHKGXSFoyn 3×150 3.6/6kV	3×150 mm ²	3.6/6 kV	59.0	4,050	8,190	378	885
☐ YHKGXSFoyn 3×185 3.6/6kV	3×185 mm ²	3.6/6 kV	63.0	4,995	9,590	430	945
☐ YHKGXSFoyn 3×240 3.6/6kV	3×240 mm ²	3.6/6 kV	68.5	6,480	11,780	505	1,028

– Screen-armoured YHKGXSFoyn (3.6/6 kV to 12/20 kV) is also supplied for methane-hazard vertical shafts.

Standards and approvals

- ✓ PN-G-90006 & WUG Vertical Mine Shaft Approved
- ✓ PN-EN 60332-3-22 Category A Flame Retardant
- ✓ CE, RoHS 2 & REACH

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/yhkgxsfoyn-cable



Typical values for this cable type, based on PN-G-90006 / PN-93/E-90401 / IEC 60502-2. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.