



PN-G-90006 FtZn armoured mining cable

YHKGXSftZnyn

Cable

Polish 3.6/6 kV XLPE (XS) galvanized flat-steel-tape armoured (FtZn) mining cable



PN-G-90006 · 3.6/6 kV

XLPE (XS) + FtZn Tape Armour

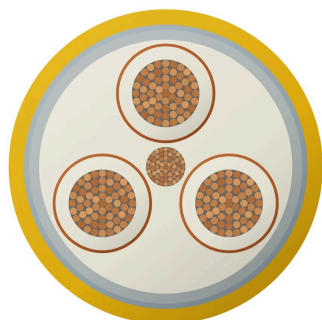
Roadways up to 45° Incline

Application

Heavy-duty Polish underground mining medium-voltage power cable (YHKGXSftZnyn) built to PN-G-90006 with +90 °C XLPE (XS) core insulation, PVC inner bedding, double helical galvanized flat steel tape armour (FtZn) and flame-retardant red PVC (yn) outer.

Typical uses: Underground Coal, Copper & Salt Haulage Drifts, Conveyor Belt & Crusher Power Feeders, Inclined Mine Roadways (up to 45°), Heavy Industrial Tunnels & Culverts

Construction



Cross-section, not to scale

- 1 Compacted stranded bare copper (RMC)
- 2 Cross-linked polyethylene (XS / XLPE)
- 3 Extruded PVC inner bedding (Y)
- 4 Galvanized flat steel tape armour (FtZn)
- 5 Flame-retardant mining PVC outer sheath (yn)

IEC 60332-3-22 Cat A
bunched flame retardant

Technical data

Typical values

Rated voltage (U_0/U)	3.6/6 kV ($U_{max} = 7.2$ kV) · also 0.6/1 kV	50 Hz AC test voltage (5 min)	11 kV AC rms
Max. conductor DC resistance @ 20 °C	1.15 Ω /km (16 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 (FtZn)	2 × galvanized flat steel tapes (100 % overlapping radial coverage)
Max. roadway inclination	Up to 45° slope (for 45°–90° shafts use YHKGXSfoyn)	Minimum bending radius	15 × OD (fixed installation)
Flame retardance	PN-EN 60332-1-2 & PN-EN 60332-3-22 Cat A (OI ≥ 29 %)	Corrosion protection	Hot-dip zinc-coated steel tapes under water-impervious yn PVC jacket
Standards	PN-G-90006, PN-93/E-90401 & IEC 60502-2		

Sizes

10 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 Flat-Steel-Tape Armoured XLPE Mining Cables (YHKGXSftZnyn) 10 sizes							
☐ YHKGXSftZnyn 3×16 3.6/6kV	3×16 mm ²	3.6/6 kV	31.5	432	1,680	102	472
☐ YHKGXSftZnyn 3×25 3.6/6kV	3×25 mm ²	3.6/6 kV	34.2	675	2,090	132	513
☐ YHKGXSftZnyn 3×35 3.6/6kV	3×35 mm ²	3.6/6 kV	36.8	945	2,520	160	552
☐ YHKGXSftZnyn 3×50 3.6/6kV	3×50 mm ²	3.6/6 kV	40.2	1,350	3,140	194	603
☐ YHKGXSftZnyn 3×70 3.6/6kV	3×70 mm ²	3.6/6 kV	44.0	1,890	3,920	240	660
☐ YHKGXSftZnyn 3×95 3.6/6kV	3×95 mm ²	3.6/6 kV	48.2	2,565	4,890	288	723
☐ YHKGXSftZnyn 3×120 3.6/6kV	3×120 mm ²	3.6/6 kV	51.6	3,240	5,790	332	774
☐ YHKGXSftZnyn 3×150 3.6/6kV	3×150 mm ²	3.6/6 kV	55.4	4,050	6,860	378	831
☐ YHKGXSftZnyn 3×185 3.6/6kV	3×185 mm ²	3.6/6 kV	59.2	4,995	8,110	430	888
☐ YHKGXSftZnyn 3×240 3.6/6kV	3×240 mm ²	3.6/6 kV	64.5	6,480	10,040	505	968

– For methane-hazard roadways requiring individual phase screens, specify YHKGXSekFtZnyn.

Standards and approvals

- ✓ PN-G-90006 & WUG Underground Mining 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/yhkgxsftznyn-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.