



PN-G-90006 PVC ek+FtZn mining cable

YHKGyekFtZnyn

Cable

Polish 3.6/6 & 6/10 kV PVC-insulated (Y) copper-screened (ek) FtZn armoured mining cable



PN-G-90006 / PN-93/E-90401

3.6/6 & 6/10 kV · PVC (Y) +70 °C

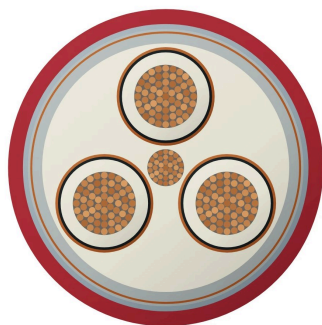
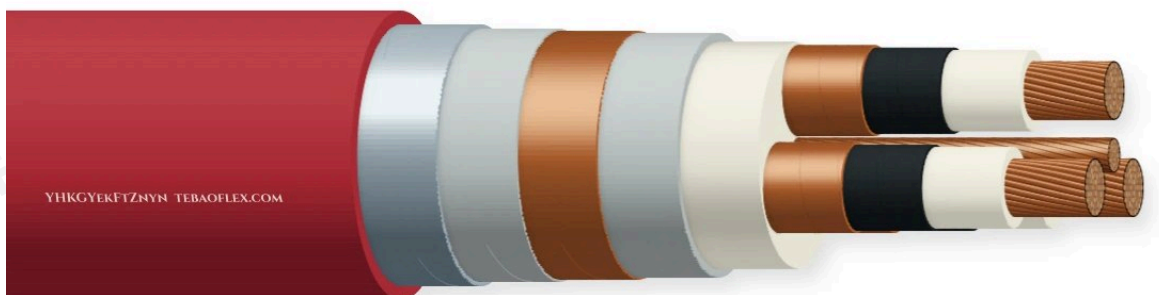
Cu Screen (ek) + FtZn Armour

Application

Traditional Polish underground mining medium-voltage power cable (YHKGyekFtZnyn) built to PN-G-90006 and PN-93/E-90401 with +70 °C special dielectric PVC (Y) core insulation, individual copper phase screens (ek), galvanized flat steel tape armour (FtZn).

Typical uses: Existing 6 kV & 10 kV Polish Coal Mines, Underground Salt, Gypsum & Zinc-Lead Mines, Mining Substation Extensions & Repairs, Industrial Tunnel Power Distribution

Construction



Cross-section, not to scale

- 1 Compacted stranded bare copper (RMC)
- 2 Medium-voltage dielectric PVC compound (Y)
- 3 Individual phase copper screen (ek)
- 4 Galvanized flat steel tape armour (FtZn) over PVC
- 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) & 6/10 kV ($U_{max} = 12$ kV)	50 Hz AC test voltage (5 min)	11 kV AC (3.6/6 kV) · 15 kV AC (6/10 kV)
Max. conductor DC resistance @ 20 °C	0.727 Ω /km (25 mm ²) to 0.124 Ω /km (150 mm ²)	Max. conductor operating temperature	+70 °C continuous · +160 °C short-circuit (max. 5 s)
Ambient temperature range	-25 °C to +60 °C (fixed) · 0 °C to +50 °C (installation)	Armour construction (FtZn)	2 × hot-dip galvanized flat steel tapes over PVC bedding
Max. roadway inclination	Up to 45° slope	Minimum bending radius	15 × OD (fixed installation)
Flame retardance	PN-EN 60332-1-2 & PN-EN 60332-3-22 Cat A (both core & sheath PVC)	Chemical & water resistance	Resistant to saline mine water, acids and mineral oils
Standards	PN-G-90006, PN-93/E-90401 & IEC 60502-2		

Sizes

11 standard constructions

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

Order designation	Phase / Screen	Voltage	Outer $\varnothing \approx$ mm	Copper kg/km	Weight $\approx$ kg/km	In air 25 °C A	Min. bend R mm
3.6/6 kV PVC Screened & Tape-Armoured Mining Cables (YHKGyEkFtZnyn) 7 sizes							
☐ YHKGyEkFtZnyn 3×25/16 3.6/6kV	3×25 / 16 mm ²	3.6/6 kV	40.5	830	2,780	108	608
☐ YHKGyEkFtZnyn 3×35/16 3.6/6kV	3×35 / 16 mm ²	3.6/6 kV	43.2	1,100	3,260	130	648
☐ YHKGyEkFtZnyn 3×50/16 3.6/6kV	3×50 / 16 mm ²	3.6/6 kV	46.5	1,510	3,940	158	698
☐ YHKGyEkFtZnyn 3×70/16 3.6/6kV	3×70 / 16 mm ²	3.6/6 kV	50.4	2,060	4,820	195	756
☐ YHKGyEkFtZnyn 3×95/16 3.6/6kV	3×95 / 16 mm ²	3.6/6 kV	54.8	2,740	5,890	234	822
☐ YHKGyEkFtZnyn 3×120/16 3.6/6kV	3×120 / 16 mm ²	3.6/6 kV	58.2	3,420	6,860	270	873
☐ YHKGyEkFtZnyn 3×150/25 3.6/6kV	3×150 / 25 mm ²	3.6/6 kV	62.0	4,330	8,040	308	930
6/10 kV PVC Screened & Tape-Armoured Mining Cables (YHKGyEkFtZnyn) 4 sizes							
☐ YHKGyEkFtZnyn 3×50/16 6/10kV	3×50 / 16 mm ²	6/10 kV	50.8	1,525	4,480	158	762
☐ YHKGyEkFtZnyn 3×70/16 6/10kV	3×70 / 16 mm ²	6/10 kV	54.6	2,075	5,410	195	819
☐ YHKGyEkFtZnyn 3×95/16 6/10kV	3×95 / 16 mm ²	6/10 kV	59.0	2,760	6,510	234	885
☐ YHKGyEkFtZnyn 3×120/16 6/10kV	3×120 / 16 mm ²	6/10 kV	62.5	3,440	7,520	270	938

– Ampacity is based on +70 °C PVC conductor temperature (for +90 °C higher ampacity, see YHKGXSeKfTznyn).

Standards and approvals

- ✓ PN-G-90006 & PN-93/E-90401 Compliant
- ✓ WUG Methane-Hazard Roadway Approved
- ✓ PN-EN 60332-3-22 Cat A Flame Retardant

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/yhkgyekftznyn-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.