



PN-G-90006 ek+FtZn MV mining cable

YHKGXSekFtZnyn

Cable

Polish 3.6/6–12/20 kV XLPE (XS) copper-screened (ek) & FtZn armoured mining cable



PN-G-90006 · 3.6/6 to 12/20 kV

XLPE (XS) + Cu Screen (ek)

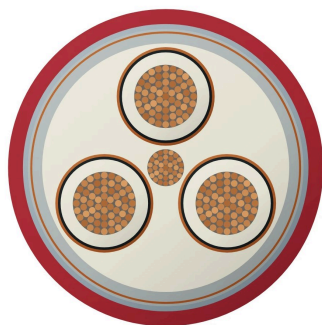
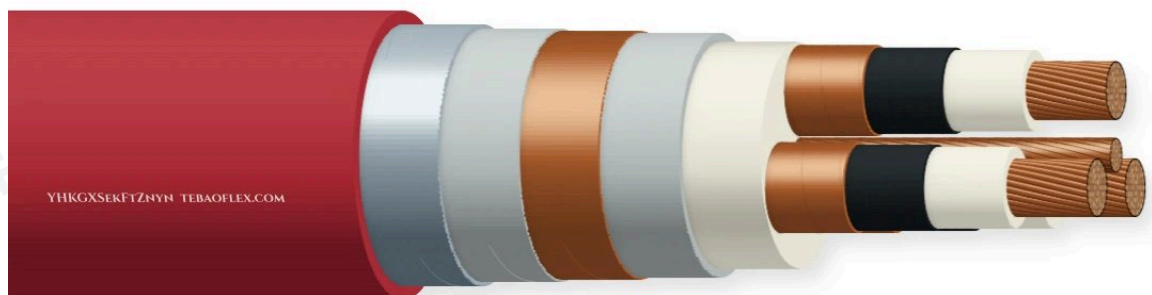
FtZn Steel Tape · Methane-Safe

Application

The flagship Polish underground coal and copper mining MV feeder cable (YHKGXSekFtZnyn) built to PN-G-90006 with triple-extruded +90 °C XLPE (XS) insulation, individual copper phase screens (ek), galvanized flat steel tape armour (FtZn) and red.

Typical uses: Gassy Hard-Coal Longwall Gate Roads, Underground Copper & Silver Ore Mines, Flameproof District Transformer Feeders, Deep Tunnel & Subsurface Infrastructure

Construction



Cross-section, not to scale

- 1 Compacted stranded bare copper (RMC)
- 2 Co-extruded inner & outer semiconductive layers
- 3 Cross-linked polyethylene (XS / XLPE)
- 4 Individual phase copper screen (ek)
- 5 Galvanized flat steel tape armour (FtZn) over PVC
- 6 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, 6/10 kV, 8.7/15 kV & 12/20 kV	Partial discharge (PD) level	≤ 5 pC at $1.73 \times U_0$
50 Hz AC test voltage (5 min)	11 kV (3.6/6 kV) · 15 kV (6/10 kV) · 21 kV (8.7/15 kV) · 29 kV (12/20 kV)	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 × 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 (OI ≥ 29 %)	Corrosive mine-water resistance	Galvanized steel armour + heavy-duty yin PVC outer jacket
Standards	PN-G-90006, ZN-TF & IEC 60502-2		

Sizes

13 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 Screened & Tape-Armoured XLPE Mining Cables (YHKGXSekFtZnyn) 6 sizes							
☐ YHKGXSekFtZnyn 3×25/16 3.6/6kV	3×25 / 16 mm ²	3.6/6 kV	38.2	830	2,460	132	573
☐ YHKGXSekFtZnyn 3×35/16 3.6/6kV	3×35 / 16 mm ²	3.6/6 kV	41.0	1,100	2,910	160	615
☐ YHKGXSekFtZnyn 3×50/16 3.6/6kV	3×50 / 16 mm ²	3.6/6 kV	44.2	1,510	3,540	194	663
☐ YHKGXSekFtZnyn 3×70/16 3.6/6kV	3×70 / 16 mm ²	3.6/6 kV	48.0	2,060	4,360	240	720
☐ YHKGXSekFtZnyn 3×95/16 3.6/6kV	3×95 / 16 mm ²	3.6/6 kV	52.4	2,740	5,360	288	786
☐ YHKGXSekFtZnyn 3×120/16 3.6/6kV	3×120 / 16 mm ²	3.6/6 kV	55.8	3,420	6,280	332	837
6/10 kV Screened & Tape-Armoured XLPE Mining Cables (YHKGXSekFtZnyn) 7 sizes							
☐ YHKGXSekFtZnyn 3×50/16 6/10kV	3×50 / 16 mm ²	6/10 kV	47.8	1,525	3,960	194	717
☐ YHKGXSekFtZnyn 3×70/16 6/10kV	3×70 / 16 mm ²	6/10 kV	51.6	2,075	4,810	240	774
☐ YHKGXSekFtZnyn 3×95/16 6/10kV	3×95 / 16 mm ²	6/10 kV	56.0	2,760	5,840	288	840
☐ YHKGXSekFtZnyn 3×120/16 6/10kV	3×120 / 16 mm ²	6/10 kV	59.4	3,440	6,790	332	891
☐ YHKGXSekFtZnyn 3×150/25 6/10kV	3×150 / 25 mm ²	6/10 kV	63.2	4,330	7,980	378	948
☐ YHKGXSekFtZnyn 3×185/25 6/10kV	3×185 / 25 mm ²	6/10 kV	67.2	5,280	9,260	430	1,008
☐ YHKGXSekFtZnyn 3×240/25 6/10kV	3×240 / 25 mm ²	6/10 kV	72.5	6,770	11,340	505	1,088

– 8.7/15 kV and 12/20 kV executions are also supplied.

Standards and approvals

- ✓ PN-G-90006 & WUG Methane-Roadway Approved
- ✓ IEC 60502-2 Partial Discharge ≤ 5 pC
- ✓ 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/yhkgxsekftznyn-cable



Typical values for this cable type, based on PN-G-90006 / ZN-TF / 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.