ZN-CB-14 flexible multi-core high-LOI mining control cable

YnKGSLY

0.6/1 kV Flexible Underground Mining Control Cable

ZN-CB-14:2002 / EMAG · 300/500 V & 0.6/1 kV · Flexible multi-core mine control cable



ZN-CB-14:2002 / EMAG | **0.6/1 kV Class 5 Cu** | **LOI ≥ 29% Yellow FR-PVC**

Application

YnKGSLY 300/500 V and 0.6/1 kV flexible underground mining control and signalling cable certified by EMAG for methane/coal-dust zones, featuring Class 5 bare copper cores, numbered black PVC insulation, Green/Yellow PE core and yellow FR-PVC sheath.

Typical uses: Underground Coal & Hard-Rock Mining, Open-Cast Excavators, Draglines & Shovels, Vertical Mine Shafts, Hoists & Boreholes, Tunneling, Mineral Processing & Slurry Plants

Construction





Cross-section, not to scale

1. Flexible Conductors (6×1.5+1.5 mm²)
2. PVC Core Insulation (Y)
3. Core Wrapping Tape (PETP)
4. High-LOI Mining Sheath (Yn)

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (ZN-CB-14:2002 / PN-EN 60228 / IEC 60332-3-24)
Primary dielectric / buffering	PVC Core Insulation (Y) — White-numbered black PVC control cores (1–6) + outer green/yellow PE core (żo)
Short-circuit / peak thermal rating	Verified thermal stability per ZN-CB-14:2002 / PN-EN 60228 / IEC 60332-3-24
Outer protection / armouring	High-LOI Mining Sheath (Yn) — Yellow self-extinguishing flame-retardant mining PVC (LOI ≥ 29%, Cat. C)
Crush, impact & abrasion duty	Heavy-duty mining rock-cut, impact and tensile protection per ZN-CB-14:2002 / PN-EN 60228 / IEC 60332-3-24
Mine water, oil & chemical resistance	Resistant to acidic mine water, hydraulic oils and abrasion per ZN-CB-14:2002 / PN-EN 60228 / IEC 60332-3-24
Standards	ZN-CB-14:2002 / PN-EN 60228 / IEC 60332-3-24
Core / conductor construction	Flexible Conductors (6×1.5+1.5 mm²) — PN-EN 60228 Class 5 flexible multi-wire bare annealed copper (1+6 lay)
Continuous operating temperature	-30 to +70 °C (mining & industrial service)
Storage & transport temperature	−40...+80 °C on export wooden/steel drum
Minimum bending radius	8 × OD
Flame retardancy & mine fire safety	Self-extinguishing / flame-retardant mining jacket per ZN-CB-14:2002 / PN-EN 60228 / IEC 60332-3-24
RoHS & REACH compliance	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant

Sizes

3 standard constructions

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

Order designation	Configuration	Core / stranding	Outer Ø ≈ mm	Net weight ≈ kg/km	Tensile rating kN ≈	Min. bend R mm
YnKGSLY Construction Schedule (-30 to +70 °C) 3 sizes						
☐ **YnKGSLY 6×1.5 + 1.5 mm² (0.6/1 kV)**	6 × 1.5 mm² + 1 × 1.5 żo	Class 5 bare Cu (1+6 lay)	12.6	235	1.1	100
☐ **YnKGSLY 12×1.5 + 1.5 mm² (0.6/1 kV)**	12 × 1.5 mm² + 1 × 1.5 żo	Class 5 bare Cu	16.4	385	1.9	130
☐ **YnKGSLY 18×2.5 + 2.5 mm² (0.6/1 kV)**	18 × 2.5 mm² + 1 × 2.5 żo	Class 5 bare Cu	22.2	745	4.8	180

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per ZN-CB-14:2002 / PN-EN 60228 / IEC 60332-3-24.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
6 × 1.5 mm² + 1 × 1.5 żo	13.30	0.6/1 kV · LOI ≥ 29% Cat. C	-30 to +70 °C
12 × 1.5 mm² + 1 × 1.5 żo	13.30	0.6/1 kV · LOI ≥ 29% Cat. C	-30 to +70 °C
18 × 2.5 mm² + 1 × 2.5 żo	7.98	0.6/1 kV · LOI ≥ 29% Cat. C	-30 to +70 °C

– Every production length undergoes routine conductor DC resistance, high-voltage Spark/AC dielectric or OTDR continuity and dimensional verification.

Standards and approvals

- ZN-CB-14 / EMAG Compliant
- EN 10204 3.1 Factory Test Certificate
- CE, RoHS 2 (2011/65/EU) & 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/ynkgsly-0-6-1kv-flexible-multi-core-high-loi-underground-mining-control-cable

Typical values for this cable type, based on ZN-CB-14:2002 / PN-EN 60228 / IEC 60332-3-24. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.