Individually braid-screened PVC mining control cable

YnHKGSLY

300/500 V Screened PVC Mining Control Cable

PN-G-91006 / IEC 60228 · 300/500 V · −30…+70 °C per-core braid-screened mining cable



300/500 V Mining | Per-Core Cu Braid | Flame-Retardant Yn

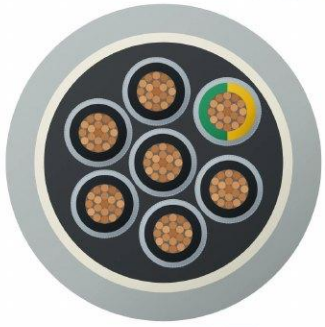
Application

YnHKGSLY 300/500 V underground mining control cable featuring Class 5 flexible copper conductors, numbered black PVC core insulation (plus green/yellow PE), individual tinned copper wire braid screens over every core and a grey flame-retardant Yn PVC jacket.

Typical uses: Underground Mine Conveyor & Haulage Interlock Control, Mine Hoist, Ventilation Fan & Pump Station Switchgear, Mineral Processing Plant PLC & Actuator Wiring, Tunnelling & Subterranean Safety Signalling Circuits

Construction





Cross-section, not to scale

1	Control Conductors (7G1.5 mm²)	PN-G-91006 / IEC 60332-1-2
2	PVC Core Insulation	PN-G-91006 / IEC 60332-1-2
3	Individual Core Braid Screens	PN-G-91006 / IEC 60332-1-2
4	Flame-Retardant Outer Sheath	PN-G-91006 / IEC 60332-1-2

Technical data

Typical values

Rated voltage / transmission duty	300/500 V (PN-G-91006 / IEC 60332-1-2)	**Core / conductor construction**	Control Conductors (7G1.5 mm²) — Seven 1.5 mm² Class 5 flexible plain annealed copper conductors for underground mining automation and signalling
Primary dielectric / insulation	PVC Core Insulation — Extruded polyvinyl chloride (PVC) primary insulation with white-numbered black control cores and one green/yellow protective earth core	**Continuous operating temperature**	−30…+70 °C (rated operating envelope)
Storage & transport temperature	−40…+80 °C on export drum or reel	**Outer protection / sheath**	Flame-Retardant Outer Sheath — Grey mining-grade flame-retardant polyvinyl chloride (Yn PVC) outer sheath meeting underground mine fire propagation standards
Minimum bending radius	8–10 × OD	**Structural layer count**	4 concentric functional layers
Environmental & chemical resistance	Industrial moisture, oils and mechanical wear per PN-G-91006 / IEC 60332-1-2	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	PN-G-91006 / IEC 60332-1-2		

Sizes

5 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	Weight ≈ kg/km	Tensile load kN ≈	Min. bend R mm
YnHKGSLY Construction Schedule (−30…+70 °C) 5 sizes						
☐ **YnHKGSLY 5G1.5 mm² Per-Core Screened**	5G1.5 mm²	Class 5 Cu + per-core Cu braid	13.8	285	1.1	115
☐ **YnHKGSLY 7G1.5 mm² Per-Core Screened**	7G1.5 mm²	Class 5 Cu + per-core Cu braid	15.2	370	1.5	125
☐ **YnHKGSLY 10G1.5 mm² Per-Core Screened**	10G1.5 mm²	Class 5 Cu + per-core Cu braid	18.6	510	2.2	155
☐ **YnHKGSLY 12G1.5 mm² Per-Core Screened**	12G1.5 mm²	Class 5 Cu + per-core Cu braid	19.4	585	2.6	160
☐ **YnHKGSLY 7G2.5 mm² Per-Core Screened**	7G2.5 mm²	Class 5 Cu + per-core Cu braid	17.6	520	2.5	145

– Custom core counts, cross-sections, sheath colours and factory-tested cut lengths available per PN-G-91006 / IEC 60332-1-2.

Electrical, optical & thermal parameters

5 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Capacity	Operating temp.
5G1.5 mm² (Per-Core Screened)	13.30	300/500 V / 16 A	−30…+70 °C
7G1.5 mm² (Per-Core Screened)	13.30	300/500 V / 14 A	−30…+70 °C
10G1.5 mm² (Per-Core Screened)	13.30	300/500 V / 12 A	−30…+70 °C
12G1.5 mm² (Per-Core Screened)	13.30	300/500 V / 11 A	−30…+70 °C
7G2.5 mm² (Per-Core Screened)	7.98	300/500 V / 20 A	−30…+70 °C

– Every production length undergoes routine conductor DC resistance, high-voltage dielectric and dimensional verification.

Standards and approvals

- PN-G-91006 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/ynhkgsly-300-500v-individually-braid-screened-pvc-mining-control-cable

Typical values for this cable type, based on PN-G-91006 / IEC 60332-1-2. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.