EMAG double-braid-screened Ex-i methane monitoring cable

YHKGSLYkonoynzo-P

300/500 V Ex-i Methane Monitoring Cable

WT-TK-24 / TI EMAG · 300/500 V · Double braid-screened Ex-i methane sensor cable



WT-TK-24 / TI EMAG | Individual + Overall Braid | Ex-i Methane Telemetry

Application

YHKGSLYkonoynzo-P 300/500 V double-sheathed, individually and overall tinned-copper-braid screened intrinsically safe (Ex-i) mining cable approved by EMAG for underground methane monitoring, with an outer Green/Yellow core and Cat. C 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. Screened Pairs (4×2×1.0 mm² -P)
2. Protective Earth Core (+1×1.0 żo)
3. Core Wrap & Inner PVC Sheath (Y)
4. Overall Braid Shield (kono)
5. Ex-i Blue Outer Sheath (yn)

Technical data

Typical values

Rated voltage / transmission duty	300/500 V (WT-TK-24 / TI EMAG / IEC 60332-3-24)	**Core / conductor construction**	Screened Pairs (4×2×1.0 mm² -P) — Class 5 bare copper + Black/Brown PVC + individual tinned Cu braid (H, ≥70%)
Primary dielectric / buffering	Protective Earth Core (+1×1.0 żo) — Class 5 bare copper (1.0 mm²) with green/yellow PVC insulation in outer layer	**Continuous operating temperature**	-30 to +70 °C (mining & industrial service)
Short-circuit / peak thermal rating	Verified thermal stability per WT-TK-24 / TI EMAG / IEC 60332-3-24	**Storage & transport temperature**	−40...+80 °C on export wooden/steel drum
Outer protection / armouring	Ex-i Blue Outer Sheath (yn) — RAL 5015 intrinsically safe high-LOI (LOI ≥ 29%) Cat. C mining PVC jacket	**Minimum bending radius**	10 × OD
Crush, impact & abrasion duty	Heavy-duty mining rock-cut, impact and tensile protection per WT-TK-24 / TI EMAG / IEC 60332-3-24	**Flame retardancy & mine fire safety**	Self-extinguishing / flame-retardant mining jacket per WT-TK-24 / TI EMAG / IEC 60332-3-24
Mine water, oil & chemical resistance	Resistant to acidic mine water, hydraulic oils and abrasion per WT-TK-24 / TI EMAG / IEC 60332-3-24	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	WT-TK-24 / TI EMAG / IEC 60332-3-24		

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
YHKGSLYkonoynzo-P Construction Schedule (-30 to +70 °C) 3 sizes						
☐ YHKGSLYkonoynżo-P 2×2×1.0 + 1×1.0	2×2×1.0 mm² (H) + 1×1.0 żo	Class 5 bare Cu + 2×Braid	14.8	295	0.9	150
☐ YHKGSLYkonoynżo-P 4×2×1.0 + 1×1.0	4×2×1.0 mm² (H) + 1×1.0 żo	Class 5 bare Cu + 2×Braid	18.2	465	1.5	185
☐ YHKGSLYkonoynżo-P 7×2×1.0 + 1×1.5	7×2×1.0 mm² (H) + 1×1.5 żo	Class 5 bare Cu + 2×Braid	22.4	710	2.4	225

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per WT-TK-24 / TI EMAG / 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.
2×2×1.0 mm² (H) + 1×1.0 żo	19.50	300/500 V · ≥70% H + ≥70% kono	-30 to +70 °C
4×2×1.0 mm² (H) + 1×1.0 żo	19.50	300/500 V · ≥70% H + ≥70% kono	-30 to +70 °C
7×2×1.0 mm² (H) + 1×1.5 żo	19.50	300/500 V · ≥70% H + ≥70% kono	-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

- WT-TK-24 / 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/yhkgslykonoynzo-p-300-500v-double-braid-screened-ex-i-methane-monitoring-cable

Typical values for this cable type, based on WT-TK-24 / TI EMAG / 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.