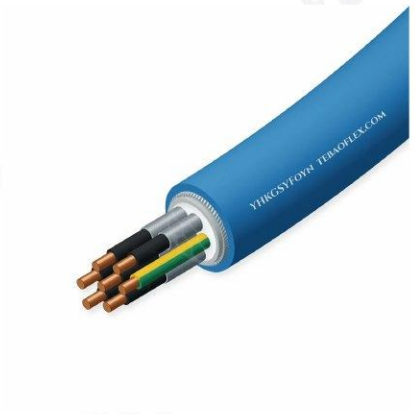
EMAG individually braid-screened SWA mine shaft Ex-i cable

YHKGSYFoyn

300/500 V SWA Mine Shaft Ex-i Sensor Cable

WT-TK-25 / TI EMAG · 300/500 V · Individually braid-screened SWA mine shaft Ex-i cable



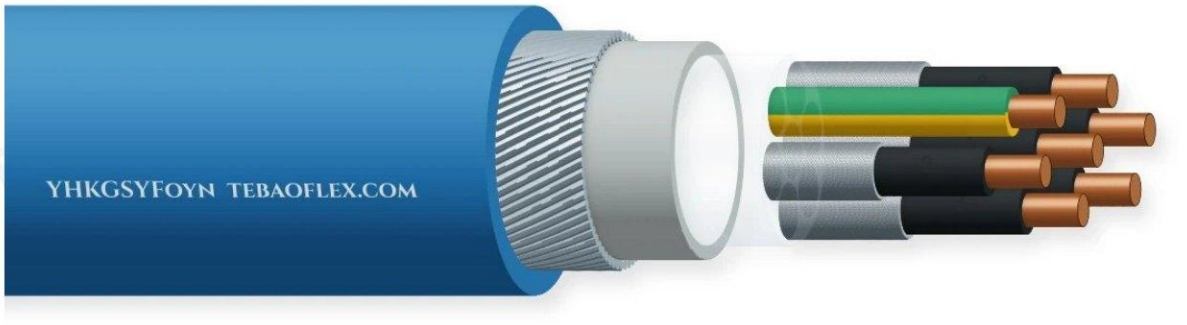
WT-TK-25 / TI EMAG | Individual Cu Braid (H) | ≤90° Shaft Round SWA

Application

YHKGSYFoyn 300/500 V round steel wire armoured (Fo) and individually copper-braid screened (H) underground mining shaft sensor cable approved by EMAG for ≤90° vertical shafts, with an outer Green/Yellow core and Ex-i blue 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 Signal Cores (6×1.5 mm²)
2. Protective Earth Core (+1×1.5 żo)
3. PVC Inner Bedding Sheath (Y)
4. Round Steel Wire Armour (Fo)
5. Ex-i Blue Outer Sheath (yn)

Technical data

Typical values

Rated voltage / transmission duty	300/500 V (WT-TK-25 / TI EMAG / IEC 60332-3-24)	**Core / conductor construction**	Screened Signal Cores (6×1.5 mm²) — Class 1 solid bare copper + numbered PVC + individual tinned Cu braid (H)
Primary dielectric / buffering	Protective Earth Core (+1×1.5 żo) — Class 1 solid bare copper conductor with green/yellow PVC in outer layer	**Continuous operating temperature**	-30 to +70 °C (mining & industrial service)
Short-circuit / peak thermal rating	Verified thermal stability per WT-TK-25 / 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**	12 × OD
Crush, impact & abrasion duty	Heavy-duty mining rock-cut, impact and tensile protection per WT-TK-25 / TI EMAG / IEC 60332-3-24	**Flame retardancy & mine fire safety**	Self-extinguishing / flame-retardant mining jacket per WT-TK-25 / TI EMAG / IEC 60332-3-24
Mine water, oil & chemical resistance	Resistant to acidic mine water, hydraulic oils and abrasion per WT-TK-25 / TI EMAG / IEC 60332-3-24	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	WT-TK-25 / 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
YHKGSYFoyn Construction Schedule (-30 to +70 °C) 3 sizes						
☐ **YHKGSYFoynżo 4×1.5 + 1×1.5 mm²**	4 × 1.5 mm² (H) + 1 × 1.5 żo	Class 1 solid Cu + Round SWA	18.6	640	8.5	225
☐ **YHKGSYFoynżo 6×1.5 + 1×1.5 mm²**	6 × 1.5 mm² (H) + 1 × 1.5 żo	Class 1 solid Cu + Round SWA	21.2	830	11.0	255
☐ **YHKGSYFoynżo 12×1.5 + 1×1.5 mm²**	12 × 1.5 mm² (H) + 1 × 1.5 żo	Class 1 solid Cu + Round SWA	26.8	1,320	16.5	320

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per WT-TK-25 / 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.
4 × 1.5 mm² (H) + 1 × 1.5 żo	12.10	300/500 V · ≤90° vertical shaft	-30 to +70 °C
6 × 1.5 mm² (H) + 1 × 1.5 żo	12.10	300/500 V · ≤90° vertical shaft	-30 to +70 °C
12 × 1.5 mm² (H) + 1 × 1.5 żo	12.10	300/500 V · ≤90° vertical shaft	-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-25 / 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/yhkgsyfoyn-300-500v-individually-braid-screened-swa-mine-shaft-ex-i-sensor-cable

Typical values for this cable type, based on WT-TK-25 / 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.