PN-G-90032 water-blocked SWA vertical mine shaft telecom cable

YUTKGXFoyn

Water-Blocked SWA Mine Shaft Telecom Cable

PN-G-90032 / ZN-TF-39 · 300 V · Water-blocked SWA vertical mine shaft telecom cable



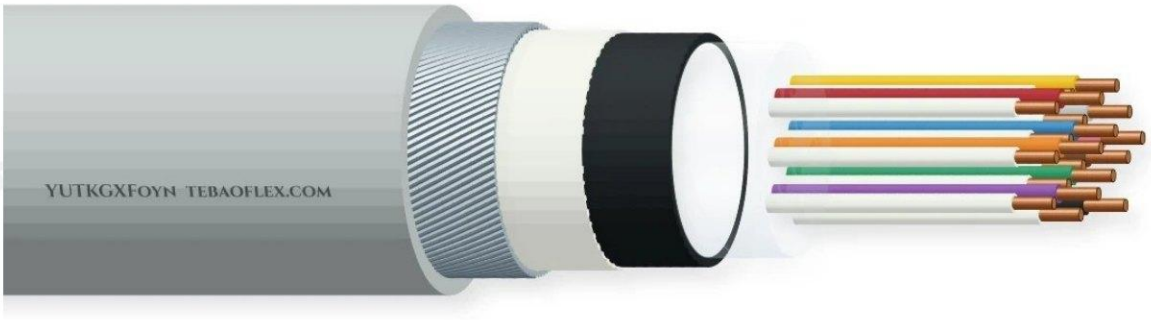
PN-G-90032 / EMAG | Water-Blocked (U) + PE (X) | Vertical Shaft Round SWA

Application

YUTKGXFoyn EMAG-approved longitudinally water-blocked (U) and round steel wire armoured (Fo) mining telecom cable per PN-G-90032 for wet vertical shafts (≤90°), with Ø 0.8 mm solid copper pairs, PE insulation (X), round SWA and grey 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. Solid Copper Conductors (10×2×0.8 mm)
2. PE Telecom Insulation (X)
3. Polyester Wrap & PVC Inner Sheath (Y)
4. Swelling Tape (U) & Round SWA (Fo)
5. Mining Flame-Retardant Sheath (yn)

Technical data

Typical values

Rated voltage / transmission duty	300 V (PN-G-90032 / ZN-TF-39 / IEC 60332-3-24)	**Core / conductor construction**	Solid Copper Conductors (10×2×0.8 mm) — PN-EN 60228 Class 1 solid annealed bare copper (Ø 0.8 mm)
Primary dielectric / buffering	PE Telecom Insulation (X) — Solid communication-grade polyethylene (<55 nF/km) color-coded pairs	**Continuous operating temperature**	-30 to +70 °C (mining & industrial service)
Short-circuit / peak thermal rating	Verified thermal stability per PN-G-90032 / ZN-TF-39 / IEC 60332-3-24	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Mining Flame-Retardant Sheath (yn) — Grey high-oxygen-index (LOI ≥ 29%) Cat. C flame-retardant PVC jacket	**Minimum bending radius**	12 × OD
Crush, impact & abrasion duty	Heavy-duty mining rock-cut, impact and tensile protection per PN-G-90032 / ZN-TF-39 / IEC 60332-3-24	**Flame retardancy & mine fire safety**	Self-extinguishing / flame-retardant mining jacket per PN-G-90032 / ZN-TF-39 / IEC 60332-3-24
Mine water, oil & chemical resistance	Resistant to acidic mine water, hydraulic oils and abrasion per PN-G-90032 / ZN-TF-39 / IEC 60332-3-24	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	PN-G-90032 / ZN-TF-39 / 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
YUTKGXFoyn Construction Schedule (-30 to +70 °C) 3 sizes						
☐ YUTKGXFoyn 5×2×0.8 mm Shaft SWA	5 × 2 × 0.8 mm PE Pairs + U	Class 1 solid Cu + Round SWA	15.8	495	8.5	190
☐ YUTKGXFoyn 10×2×0.8 mm Shaft SWA	10 × 2 × 0.8 mm PE Pairs + U	Class 1 solid Cu + Round SWA	19.2	710	11.5	230
☐ YUTKGXFoyn 20×2×0.8 mm Shaft SWA	20 × 2 × 0.8 mm PE Pairs + U	Class 1 solid Cu + Round SWA	24.0	1,090	16.0	290

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per PN-G-90032 / ZN-TF-39 / 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.
5 × 2 × 0.8 mm PE Pairs + U	36.60	≤55 nF/km · ≤90° wet shaft	-30 to +70 °C
10 × 2 × 0.8 mm PE Pairs + U	36.60	≤55 nF/km · ≤90° wet shaft	-30 to +70 °C
20 × 2 × 0.8 mm PE Pairs + U	36.60	≤55 nF/km · ≤90° wet 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

- PN-G-90032 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/yutkgxfoyn-water-blocked-round-steel-wire-armoured-mine-shaft-telecom-cable

Typical values for this cable type, based on PN-G-90032 / ZN-TF-39 / 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.