PN-G-90006 water-blocked steel-tape armoured mining MV cable

YUHKGXSFtZnyn

6/10 kV Water-Blocked Steel-Tape Mining Cable

PN-G-90006 / WT-TK-38 · 6/10 kV · Water-blocked steel-tape armoured mining MV power cable



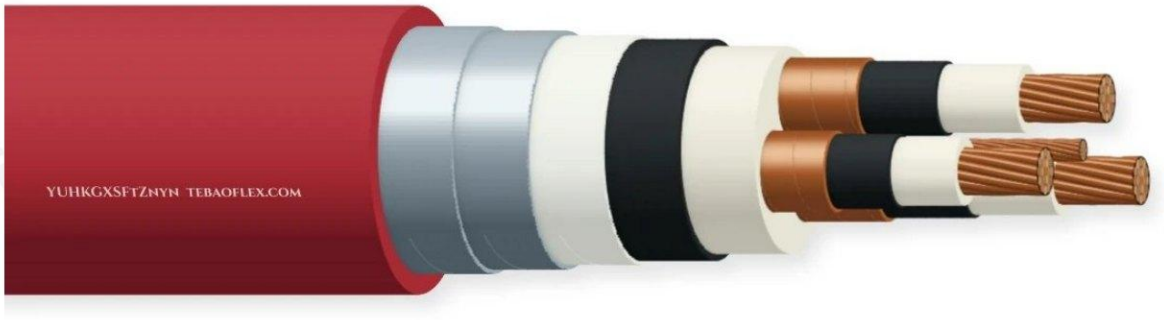
PN-G-90006 / EMAG | 6/10 kV XLPE + Water-Blocked | Double Steel Tape (FtZn)

Application

YUHKGXSFtZnyn 6/10 kV longitudinally water-blocked (U) and double steel-tape armoured (FtZn) medium-voltage mining roadway feeder cable per PN-G-90006 for ≤45° inclines, with a central bare earth core, 3 screened XLPE phases and red 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. Central Bare Earth Core (16 mm²)
2. Phase Cores (3×70 mm² XLPE + H)
3. PVC Inner Sheath & Swelling Tape (U)
4. Double Steel Tape Armour (FtZn)
5. Mining Flame-Retardant Sheath (yn)

Technical data

Typical values

Rated voltage / transmission duty	6/10 kV (PN-G-90006 / WT-TK-38 / IEC 60332-3-24)
Primary dielectric / buffering	Phase Cores (3×70 mm² XLPE + H) — Class 2 bare copper + XLPE (XS) + semicon + individual copper tape screen
Short-circuit / peak thermal rating	Verified thermal stability per PN-G-90006 / WT-TK-38 / IEC 60332-3-24
Outer protection / armouring	Mining Flame-Retardant Sheath (yn) — Red high-oxygen-index (LOI ≥ 29%) Cat. C flame-retardant PVC outer jacket
Crush, impact & abrasion duty	Heavy-duty mining rock-cut, impact and tensile protection per PN-G-90006 / WT-TK-38 / IEC 60332-3-24
Mine water, oil & chemical resistance	Resistant to acidic mine water, hydraulic oils and abrasion per PN-G-90006 / WT-TK-38 / IEC 60332-3-24
Standards	PN-G-90006 / WT-TK-38 / IEC 60332-3-24
Core / conductor construction	Central Bare Earth Core (16 mm²) — Class 2 compacted circular bare copper earth conductor at cable center
Continuous operating temperature	-30 to +90 °C (mining & industrial service)
Storage & transport temperature	−40…+80 °C on export wooden/steel drum
Minimum bending radius	15 × OD
Flame retardancy & mine fire safety	Self-extinguishing / flame-retardant mining jacket per PN-G-90006 / WT-TK-38 / 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
YUHKGXSFtZnyn Construction Schedule (-30 to +90 °C) 3 sizes						
☐ **YUHKGXSFtZnyn 3×50 + 16 mm² 6/10 kV**	**3 × 50 mm² + 16 mm² Central Earth**	**Class 2 compacted Cu + FtZn**	**46.8**	**3,690**	**22.5**	**700**
☐ **YUHKGXSFtZnyn 3×70 + 16 mm² 6/10 kV**	**3 × 70 mm² + 16 mm² Central Earth**	**Class 2 compacted Cu + FtZn**	**51.0**	**4,640**	**31.5**	**765**
☐ **YUHKGXSFtZnyn 3×120 + 25 mm² 6/10 kV**	**3 × 120 mm² + 25 mm² Central Earth**	**Class 2 compacted Cu + FtZn**	**59.8**	**6,890**	**54.0**	**895**

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per PN-G-90006 / WT-TK-38 / 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.
3 × 50 mm² + 16 mm² Central Earth	**0.39**	**6/10 kV (195 A)**	**-30 to +90 °C**
3 × 70 mm² + 16 mm² Central Earth	**0.27**	**6/10 kV (242 A)**	**-30 to +90 °C**
3 × 120 mm² + 25 mm² Central Earth	**0.15**	**6/10 kV (335 A)**	**-30 to +90 °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-90006 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/yuhkgxsftznyn-6-10kv-water-blocked-steel-tape-armoured-mining-mv-power-cable

Typical values for this cable type, based on PN-G-90006 / WT-TK-38 / 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.