PN-G-90006 double copper-tape screened SWA mining MV cable

YHKGXSekFoyn

3.6/6 kV Double-Screened SWA Mining Power Cable

PN-G-90006 / WT-2002 · 3.6/6 kV · Double copper-tape screened SWA mining power cable



PN-G-90006 / EMAG | 3.6/6 kV Double Cu Screen | Central Bare Earth + SWA

Application

YHKGXSekFoyn 3.6/6 kV underground mining power feeder cable per PN-G-90006 for vertical shafts and steep headings, with a central bare earth core contacting individual (H) and overall (ek) copper tape screens, round SWA (Fo) 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. Inner Sheath & Overall Cu Screen (ek)
4. Separation Sheath & Round SWA (Fo)
5. Mining Flame-Retardant Sheath (yn)

Technical data

Typical values

Rated voltage / transmission duty	3.6/6 kV (PN-G-90006 / WT-2002 / IEC 60332-3-24)	**Core / conductor construction**	Central Bare Earth Core (16 mm²) — Class 2 compacted bare copper earth conductor in continuous screen contact
Primary dielectric / buffering	Phase Cores (3×70 mm² XLPE + H) — Class 2 bare copper + 2.5 mm XLPE + semicon + individual copper tape screen	**Continuous operating temperature**	-30 to +90 °C (mining & industrial service)
Short-circuit / peak thermal rating	Verified thermal stability per PN-G-90006 / WT-2002 / IEC 60332-3-24	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Mining Flame-Retardant Sheath (yn) — Red high-oxygen-index (LOI ≥ 29%) Cat. C flame-retardant PVC outer jacket	**Minimum bending radius**	15 × OD
Crush, impact & abrasion duty	Heavy-duty mining rock-cut, impact and tensile protection per PN-G-90006 / WT-2002 / IEC 60332-3-24	**Flame retardancy & mine fire safety**	Self-extinguishing / flame-retardant mining jacket per PN-G-90006 / WT-2002 / IEC 60332-3-24
Mine water, oil & chemical resistance	Resistant to acidic mine water, hydraulic oils and abrasion per PN-G-90006 / WT-2002 / IEC 60332-3-24	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	PN-G-90006 / WT-2002 / 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
YHKGXSekFoyn Construction Schedule (-30 to +90 °C) 3 sizes						
☐ **YHKGXSekFoyn 3×50 + 16 mm² 3.6/6 kV**	**3 × 50 mm² + 16 mm² Central Earth**	**Class 2 compacted Cu + SWA**	**46.5**	**4,120**	**38.0**	**700**
☐ **YHKGXSekFoyn 3×70 + 16 mm² 3.6/6 kV**	**3 × 70 mm² + 16 mm² Central Earth**	**Class 2 compacted Cu + SWA**	**50.8**	**5,140**	**49.0**	**760**
☐ **YHKGXSekFoyn 3×120 + 25 mm² 3.6/6 kV**	**3 × 120 mm² + 25 mm² Central Earth**	**Class 2 compacted Cu + SWA**	**59.6**	**7,580**	**76.0**	**895**

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per PN-G-90006 / WT-2002 / 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**	**3.6/6 kV (185 A)**	**-30 to +90 °C**
3 × 70 mm² + 16 mm² Central Earth	**0.27**	**3.6/6 kV (230 A)**	**-30 to +90 °C**
3 × 120 mm² + 25 mm² Central Earth	**0.15**	**3.6/6 kV (320 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/yhkgxsekfoyn-3-6-6kv-double-copper-tape-screened-swa-underground-mining-power-cable

Typical values for this cable type, based on PN-G-90006 / WT-2002 / 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.