PN-G-90032 steel-tape armoured mining roadway telecom cable

YTKGXFtZnyn

Steel-Tape Armoured Mining Telecom Cable

PN-G-90032 / ZN-TF-39 · 300 V · PE-insulated steel-tape armoured mine telecom cable



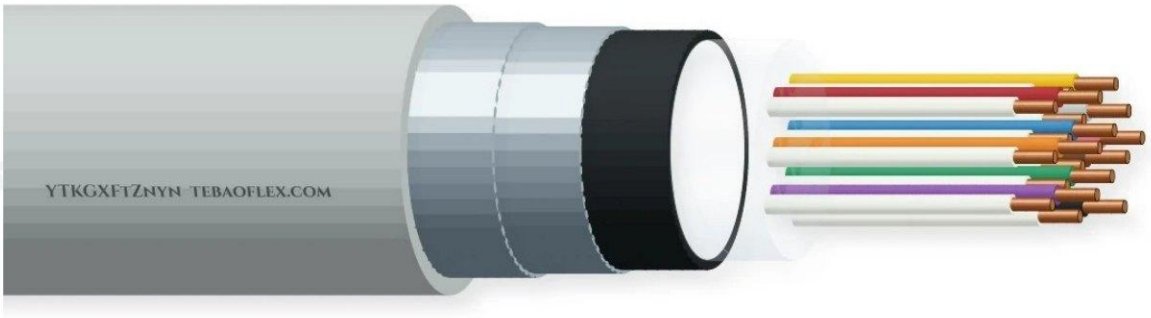
PN-G-90032 / EMAG | **<55 nF/km PE Pairs (X)** | **Double Steel Tape (FtZn)**

Application

YTKGXFtZnyn EMAG-approved underground mining roadway telecom and dispatcher cable per PN-G-90032 for ≤45° galleries, featuring Ø 0.8 mm solid bare copper pairs, low-capacitance PE insulation (X), double steel tape armour (FtZn) and 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. Low-Capacitance PE Insulation (X)
3. Core Wrap & PVC Inner Bedding (Y)
4. Double Steel Tape Armour (FtZn)
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 conductors (Ø 0.8 mm)
Primary dielectric / buffering	Low-Capacitance PE Insulation (X) — Solid polyethylene insulation (<55 nF/km) for long-distance mine telephony	**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
YTKGXFtZnyn Construction Schedule (-30 to +70 °C) 3 sizes						
☐ **YTKGXFtZnyn 5×2×0.8 mm**	**5 × 2 × 0.8 mm PE Pairs**	**Class 1 solid Cu + FtZn**	**13.8**	**310**	**1.8**	**165**
☐ **YTKGXFtZnyn 10×2×0.8 mm**	**10 × 2 × 0.8 mm PE Pairs**	**Class 1 solid Cu + FtZn**	**16.9**	**465**	**2.4**	**205**
☐ **YTKGXFtZnyn 20×2×0.8 mm**	**20 × 2 × 0.8 mm PE Pairs**	**Class 1 solid Cu + FtZn**	**21.4**	**740**	**3.6**	**255**

– 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	**36.60**	**≤55 nF/km · ≥5000 MΩ·km**	**-30 to +70 °C**
10 × 2 × 0.8 mm PE Pairs	**36.60**	**≤55 nF/km · ≥5000 MΩ·km**	**-30 to +70 °C**
20 × 2 × 0.8 mm PE Pairs	**36.60**	**≤55 nF/km · ≥5000 MΩ·km**	**-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/ytkgxftznyn-pe-insulated-steel-tape-armoured-mining-roadway-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.