Steel-tape armoured mining optical cable

YOTKGtsFtZnyn

Steel-Tape Armoured Mining Optical Cable

PN-EN 60794-1-2 / IEC 60332-3-22 · 12–144F · Steel-tape armoured mining optical cable



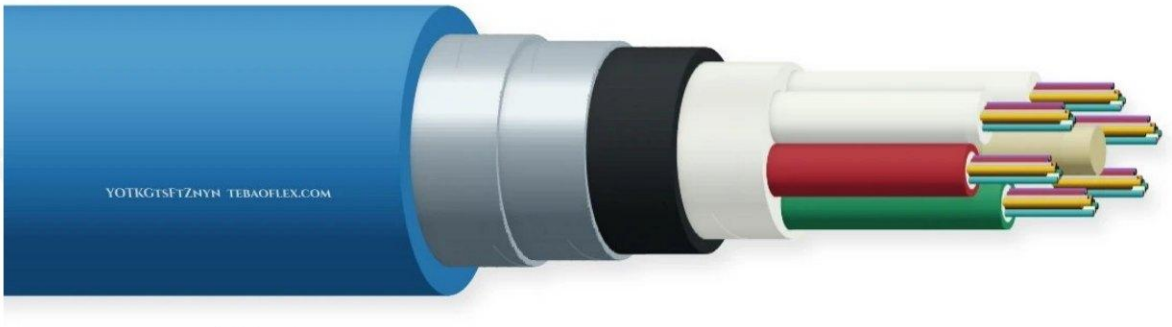
PN-EN 60794-1-2 | Double Steel Tape (FtZn) | IEC 60332-3-22 Cat. A

Application

YOTKGtsFtZnyn underground mining multi-loose-tube optical telecom cable for methane and coal-dust zones, featuring a central FRP rod, SZ gel-filled PBT tubes (Gts), PVC inner bedding, double steel tape armour (FtZn) and Cat. A blue 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 FRP Rod (CSM)
2. Loose Buffer Tubes (6×12F Gts)
3. Water-Blocking Tape & Black Inner Sheath
4. Galvanized Steel Tape Armour (FtZn)
5. Mining Flame-Retardant Sheath (yn)

Technical data

Typical values

Rated voltage / transmission duty	Optical (PN-EN 60794-1-2 / IEC 60332-3-22)	**Core / conductor construction**	Central FRP Rod (CSM) — Dielectric Fiber-Reinforced Plastic central strength member
Primary dielectric / buffering	Loose Buffer Tubes (6×12F Gts) — SZ-stranded gel-filled PBT tubes (Red/Green marker + Natural tubes)	**Continuous operating temperature**	-40 to +70 °C (mining & industrial service)
Short-circuit / peak thermal rating	Verified thermal stability per PN-EN 60794-1-2 / IEC 60332-3-22	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Mining Flame-Retardant Sheath (yn) — Blue IEC 60332-3-22 Cat. A flame-retardant mining PVC outer jacket	**Minimum bending radius**	15 × OD
Crush, impact & abrasion duty	Heavy-duty mining rock-cut, impact and tensile protection per PN-EN 60794-1-2 / IEC 60332-3-22	**Flame retardancy & mine fire safety**	Self-extinguishing / flame-retardant mining jacket per PN-EN 60794-1-2 / IEC 60332-3-22
Mine water, oil & chemical resistance	Resistant to acidic mine water, hydraulic oils and abrasion per PN-EN 60794-1-2 / IEC 60332-3-22	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	PN-EN 60794-1-2 / IEC 60332-3-22		

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
YOTKGtsFtZnyn Construction Schedule (-40 to +70 °C) 3 sizes						
☐ **YOTKGtsFtZnyn 24J (6×4F) G.652.D**	**24 × SM G.652.D (6×4F)**	**SZ gel-filled PBT tubes**	**14.8**	**285**	**3.0**	**225**
☐ **YOTKGtsFtZnyn 72J (6×12F) G.652.D**	**72 × SM G.652.D (6×12F)**	**SZ gel-filled PBT tubes**	**15.6**	**315**	**3.0**	**235**
☐ **YOTKGtsFtZnyn 144J (12×12F) G.652.D**	**144 × SM G.652.D (12×12F)**	**SZ gel-filled PBT tubes**	**19.4**	**465**	**3.5**	**295**

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per PN-EN 60794-1-2 / IEC 60332-3-22.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
24 × SM G.652.D (6×4F)	**0.36**	**≤0.22 dB/km @ 1550 nm**	**-40 to +70 °C**
72 × SM G.652.D (6×12F)	**0.36**	**≤0.22 dB/km @ 1550 nm**	**-40 to +70 °C**
144 × SM G.652.D (12×12F)	**0.36**	**≤0.22 dB/km @ 1550 nm**	**-40 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

- EN 60794-1-2 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/yotkgtsftznyn-steel-tape-armoured-multi-loose-tube-mining-optical-cable

Typical values for this cable type, based on PN-EN 60794-1-2 / IEC 60332-3-22. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.