High-LOI flat yellow mining shotfiring & blasting cable

PSY 2x1.5

Flat High-Visibility Mining Shotfiring Cable

PN-EN 60228 / GIG Barbara · 300/500 V · Flat high-visibility mining shotfiring cable



GIG Barbara Approved | 2 × 1.5 mm² Class 5 | LOI ≥ 28% Yellow PVC

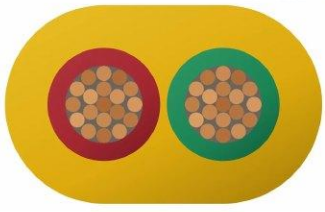
Application

PSY 2x1.5 underground mining twin-core flat shotfiring and blasting main-line cable certified by GIG Barbara for methane and coal-dust faces, with 2 × 1.5 mm² Class 5 bare copper cores, Red/Green PVC insulation and yellow high-LOI 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. Parallel Conductors (2×1.5 mm²)
2. Parallel Red & Green PVC Insulation (Y)
3. Flat High-Visibility Yellow Sheath (Y)

Technical data

Typical values

Rated voltage / transmission duty	300/500 V (PN-EN 60228 / IEC 60332-1-2 / GIG Barbara)	**Core / conductor construction**	Parallel Conductors (2×1.5 mm²) — PN-EN 60228 Class 5 flexible bare annealed copper (≤26.6 Ω/km loop)
Primary dielectric / buffering	Parallel Red & Green PVC Insulation (Y) — Color-coded Red and Green PVC cores laid parallel side-by-side	**Continuous operating temperature**	-25 to +70 °C (mining & industrial service)
Short-circuit / peak thermal rating	Verified thermal stability per PN-EN 60228 / IEC 60332-1-2 / GIG Barbara	**Storage & transport temperature**	−40...+80 °C on export wooden/steel drum
Outer protection / armouring	Flat High-Visibility Yellow Sheath (Y) — 2.5×5.0 mm flat yellow mining flame-retardant PVC jacket (LOI ≥ 28%, 3 kV test)	**Minimum bending radius**	8 × OD
Crush, impact & abrasion duty	Heavy-duty mining rock-cut, impact and tensile protection per PN-EN 60228 / IEC 60332-1-2 / GIG Barbara	**Flame retardancy & mine fire safety**	Self-extinguishing / flame-retardant mining jacket per PN-EN 60228 / IEC 60332-1-2 / GIG Barbara
Mine water, oil & chemical resistance	Resistant to acidic mine water, hydraulic oils and abrasion per PN-EN 60228 / IEC 60332-1-2 / GIG Barbara	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	PN-EN 60228 / IEC 60332-1-2 / GIG Barbara		

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
PSY 2x1.5 Construction Schedule (-25 to +70 °C) 3 sizes						
☐ **PSY 2×1.0 mm² Auxiliary Firing Line**	**2 × 1.0 mm² Flat Parallel**	**Class 5 bare Cu**	**4.4**	**31**	**0.3**	**35**
☐ **PSY 2×1.5 mm² Standard Shotfiring Line**	**2 × 1.5 mm² Flat Parallel (2.5×5.0)**	**Class 5 bare Cu**	**5.0**	**42**	**0.5**	**40**
☐ **PSY 2×2.5 mm² Long-Gallery Firing Bus**	**2 × 2.5 mm² Flat Parallel**	**Class 5 bare Cu**	**6.2**	**66**	**0.8**	**50**

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per PN-EN 60228 / IEC 60332-1-2 / GIG Barbara.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
2 × 1.0 mm² Flat Parallel	**19.50**	**≤39.0 Ω/km loop (3 kV test)**	**-25 to +70 °C**
2 × 1.5 mm² Flat Parallel	**13.30**	**≤26.6 Ω/km loop (3 kV test)**	**-25 to +70 °C**
2 × 2.5 mm² Flat Parallel	**7.98**	**≤16.0 Ω/km loop (3 kV test)**	**-25 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-EN 60228 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/psy-2x1-5-flat-high-visibility-yellow-mining-shotfiring-blasting-cable

Typical values for this cable type, based on PN-EN 60228 / IEC 60332-1-2 / GIG Barbara. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.