Class-6 screened mobile mining telecom cable

8GTL3Gkon-G 300/500V

8GTL3Gkon-G 300/500 V Mobile Mining Telecom Cable

PN-EN 60228 / ZN-CB · 300/500 V · Class-6 braid-screened mobile mining signalling cable



PN-EN 60228 Class 6 | 300/500 V | Tinned Cu Braid (kon)

Application

8GTL3Gkon-G 300/500 V extra-flexible mobile mining telecom and signalling cable with a central load-bearing cord, Class 6 tinned copper pairs, 3G EPR-TPE insulation, inner bedding, tinned copper braid (kon) and 8G rubber 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 Load-Bearing Cord
2. Class 6 Extra-Flexible Pairs (5×2×1.0)
3. Inner Elastomer Sheath
4. Overall Tinned Copper Braid (kon)
5. Heavy-Duty 8G Outer Sheath

Technical data

Typical values

Rated voltage / transmission duty	300/500 V (PN-EN 60228 / ZN-CB / IEC 60332-1-2)	**Core / conductor construction**	Central Load-Bearing Cord — High-tensile central support cord absorbing mobile reeling/pulling forces
Primary dielectric / buffering	Class 6 Extra-Flexible Pairs (5×2×1.0) — PN-EN 60228 Class 6 tinned copper + EPR-based TPE (3G) insulation	**Continuous operating temperature**	-40 to +70 °C (mining & industrial service)
Short-circuit / peak thermal rating	Verified thermal stability per PN-EN 60228 / ZN-CB / IEC 60332-1-2	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Heavy-Duty 8G Outer Sheath — Black tear-resistant (300 N/cm², LOI 32%) polyolefin elastomer jacket	**Minimum bending radius**	8 × OD
Crush, impact & abrasion duty	Heavy-duty mining rock-cut, impact and tensile protection per PN-EN 60228 / ZN-CB / IEC 60332-1-2	**Flame retardancy & mine fire safety**	Self-extinguishing / flame-retardant mining jacket per PN-EN 60228 / ZN-CB / IEC 60332-1-2
Mine water, oil & chemical resistance	Resistant to acidic mine water, hydraulic oils and abrasion per PN-EN 60228 / ZN-CB / IEC 60332-1-2	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	PN-EN 60228 / ZN-CB / IEC 60332-1-2		

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
8GTL3Gkon-G 300/500V Construction Schedule (-40 to +70 °C) 3 sizes						
☐ 8GTL3Gkon-G 3×2×1.0 mm²	3 × 2 × 1.0 mm²	Class 6 tinned Cu	16.2	345	2.4	130
☐ 8GTL3Gkon-G 5×2×1.0 mm²	5 × 2 × 1.0 mm²	Class 6 tinned Cu	19.8	510	3.5	160
☐ 8GTL3Gkon-G 7×2×1.0 mm²	7 × 2 × 1.0 mm²	Class 6 tinned Cu	22.4	665	4.2	180

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

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
3 × 2 × 1.0 mm²	20.00	300/500 V (2.5 kV test)	-40 to +70 °C
5 × 2 × 1.0 mm²	20.00	300/500 V (2.5 kV test)	-40 to +70 °C
7 × 2 × 1.0 mm²	20.00	300/500 V (2.5 kV test)	-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

- ZN-CB / 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/8gtl3gkon-g-300-500v-class-6-braid-screened-mobile-mining-signalling-cable

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