Mining Intrinsically Safe Communication Cable

Communication cable for personnel positioning, gas monitoring and underground dispatch. Use in intrinsically safe circuits requires verification of cable parameters against the complete system design.

CONSTRUCTION

- Solid or stranded copper conductor, twisted pair.
- PE, PVC or LSZH insulation.
- Aluminium foil / copper braid screen, per pair or overall.
- Flame-retardant PVC or LSZH sheath.

TECHNICAL DATA

Rated voltage	Max 250 V (signal / IS circuits)	**Pair count**	1–50 pairs
Conductor	Solid or stranded copper	**Sheath**	Flame-retardant PVC or LSZH
Insulation	PE, PVC or LSZH	**Standards**	IEC 61158, AS/NZS 1802, IS requirements
Shielding	Aluminium foil / copper braid, per pair or overall	**Packing**	Steel or wooden drum, custom lengths from 500 m

Typical values. The final construction is confirmed on the order datasheet and the released drawing.

STANDARDS, TESTING AND DOCUMENTS

Routine tests	Conductor resistance, voltage test and insulation resistance on every length
Type tests	Type-test reports for each construction, witnessed by a third party on request
Documents with the drum	Packing list, drum list, routine test certificate, datasheet, CO / FORM A
Traceability	Drum number marked and recorded against the routine test certificate

OTHER CONSTRUCTIONS FROM THE SAME RANGE

Mining Shielded Control Cable	www.zmsminingcable.com/products/mining-control-cables/mining-shielded-control-cable/
Mining Flexible Rubber Trailing Cable	www.zmsminingcable.com/products/mining-flexible-rubber-cables/mining-trailing-cable/

PACKING AND DELIVERY

Drum	Wooden or steel-framed export drum, 250–500 m per drum by cross-section
Packing	Sealed ends, protected lugs, desiccant, UV-resistant wrap
Marking	Drum no., designation, voltage, cross-section, length, gross weight
Lead time	15–25 working days for standard builds
Terms	FOB Qingdao, Tianjin or Shanghai. CIF, CFR and DAP on request

HOW TO ORDER

To quote, send the voltage class (U0/U), conductor material and cross-section, screen or armour, sheath, drum length, delivery port and the standard the project specifies. We return a released drawing, the test programme and a drum plan with the quotation.

Certification. Environmental management to ISO 14001:2015 and occupational health and safety to ISO 45001:2018, with CE marking under the EU low-voltage and EMC directives. Independent inspection and type testing are carried out through ISO/IEC 17020 and 17025 accredited laboratories. Certificate numbers and validity dates are published at www.zmsminingcable.com/certificates/.

Request a quotation for this cable

Send the specification sheet or the cable schedule and we return a released drawing, the test programme and a drum plan with the price.

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