Copper Braided Shielded Control Cable

EMI PROTECTION · ≥85% COVERAGE

A low-resistance copper braid gives noise a defined path to earth — and keeps it out of your control signal.

RATED VOLTAGE	CONDUCTOR	INSULATION	SCREEN
300/500 V	Plain or tinned copper, Class 1/2/5	PVC / PE	Copper braid, ≥85% coverage

TYPICAL APPLICATIONS

- VFD and servo control circuits
- Robot and CNC feedback wiring
- Relay and interlocking circuits
- Instrumentation near switching equipment

CONSTRUCTION

- Copper conductors with PVC/PE insulation
- Overall copper braid with high coverage
- Polyester tape separator
- PVC or LSZH outer sheath
- Optional inner screen or drain wire

TECHNICAL DATA

Rated voltage	300/500 V	**Core range**	2–37 cores
Conductor	Plain or tinned copper, Class 1/2/5	**Cross-section**	0.5–6 mm²
Insulation	PVC / PE	**Sheath**	PVC / LSZH
Screen	Copper braid, ≥85% coverage	**Standard**	IEC 60227, IEC 60228
Drain	Optional tinned copper drain		

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

LSZH Control Cable	www.zmscontrolcable.com/products/shielded-control-cables/lszh-control-cable/
Armoured Shielded Control Cable	www.zmscontrolcable.com/products/armoured-control-cables/armoured-shielded-control-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.

SELECTION NOTES

Braid or foil — which is better?
Braid is more robust and better for high-frequency noise; foil is lighter and cost-effective for static screening. We supply both.

Can the screen be connected at both ends?
The earthing strategy depends on the installation; our engineers can advise on the appropriate termination.

Is a drain wire included?
A drain wire is optional with braid constructions and standard with foil screens.

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.zmscontrolcable.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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