Shielded Marine Control Cable

IEC 60092-375 · SCREENED · 2–37 CORES

A low-transfer-impedance screen keeps switching noise out of control and alarm circuits where drives, contactors and radar share the same cable route.

VOLTAGE	CORES	SCREEN	STANDARD
300/500 V	2–37	Cu braid ≥85%	IEC 60092-375

TYPICAL APPLICATIONS

- Engine-room control circuits
- Bridge navigation and alarm systems
- Instrumentation and telemetry loops
- Automation and interlocking circuits

CONSTRUCTION

- Tinned copper conductor, class 2 or 5
- XLPE or EPR insulation
- Cores twisted in layers with fillers
- Collective tinned-copper braid screen, ≥ 85% coverage
- Optional individual or pair screens with drain wire
- SHF1, SHF2 or LSZH sheath

TECHNICAL DATA

Rated voltage	300/500 V (0.6/1kV option)	**Sheath**	SHF1, SHF2 or LSZH compound
Conductor	Tinned copper, class 2 or class 5 to IEC 60228	**Core range**	2 to 37 cores, 0.5 to 6 mm²
Insulation	XLPE or EPR	**Construction standard**	IEC 60092-375
Screen	Collective tinned-copper braid, ≥ 85% coverage, or individual pair screens	**Flame propagation**	IEC 60332-1-2 and IEC 60332-3-22

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

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

Collective or individual screen?
A collective screen is sufficient where the whole cable carries signals at a similar level. Individual or pair screens are used where analogue measurement pairs sit next to 24 V switching circuits in the same cable, which is common in alarm and monitoring systems.

Where should the screen be earthed?
For control and instrumentation the screen is normally earthed at the panel end only, to avoid circulating current through the screen. For drive and VFD circuits the screen is bonded at both ends. The vessel specification or the classification-society rule decides which applies.

Does the screen reduce the current rating?
No. A braided screen is not a current-carrying conductor. It does add diameter and mass, so the bending radius and support spacing should be taken from the cable data sheet rather than the unshielded equivalent.

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.zmsmarinecable.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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