Intrinsically Safe Control Cable

BLUE SHEATH · IS CIRCUITS

A clear blue identity, a controlled screen and a construction designed for low-energy instrument loops.

RATED VOLTAGE	CONDUCTOR	INSULATION	SCREEN
300/500 V	Plain copper, Class 1/2	PE / PVC	Al/PET foil + tinned copper drain

TYPICAL APPLICATIONS

- Petrochemical field instruments
- Refinery and gas plant IS loops
- Process skids and analyser systems
- Pharmaceutical and chemical plants

CONSTRUCTION

- Plain copper conductors
- PE or PVC insulation
- Al/PET foil with drain wire
- Blue PVC or LSZH sheath
- Optional armour for harsh routes

TECHNICAL DATA

Rated voltage	300/500 V	**Core range**	2–24 cores
Conductor	Plain copper, Class 1/2	**Cross-section**	0.5–2.5 mm²
Insulation	PE / PVC	**Standard**	IEC 60227, IEC 60228
Screen	Al/PET foil + tinned copper drain	**Application**	IS instrument loops
Sheath	Blue PVC / LSZH		

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

Instrumentation Signal Cable	www.zmscontrolcable.com/products/instrumentation-cables/instrumentation-signal-cable/
Copper Braided Shielded Control Cable	www.zmscontrolcable.com/products/shielded-control-cables/copper-braided-shielded-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

Why is the sheath blue?
Blue is the conventional identification colour for intrinsically safe circuits and helps prevent misconnection.

Does the cable itself make the circuit safe?
No. Intrinsic safety is a system property; the cable must be selected as part of the approved IS circuit design.

Can you supply armoured IS cable?
Yes, steel wire armour can be added where mechanical protection is required.

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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