# Instrumentation Signal Cable

**PAIRS & TRIADS · BS 5308**

Small signals need predictable electrical characteristics, not just good copper.

| RATED VOLTAGE | CONDUCTOR | INSULATION | PAIRING |
|---|---|---|---|
| 300/500 V | Plain or tinned copper, Class 1/2 | PE / XLPE / PVC | Twisted pairs or triads |

## TYPICAL APPLICATIONS

- 4–20 mA instrument loops
- Temperature, pressure and flow transmitters
- Analyser and control valve signals
- Protection and metering circuits

## CONSTRUCTION

- Annealed copper conductors
- PE / XLPE insulation
- Twisted pairs or triads
- Individual and/or overall foil screen
- Tinned copper drain wire
- PVC or LSZH sheath

## TECHNICAL DATA

| | | | |
|---|---|---|---|
| **Rated voltage** | 300/500 V | **Drain** | Tinned copper drain wire |
| **Conductor** | Plain or tinned copper, Class 1/2 | **Core range** | 1–48 pairs |
| **Insulation** | PE / XLPE / PVC | **Cross-section** | 0.5–2.5 mm² |
| **Pairing** | Twisted pairs or triads | **Sheath** | PVC / LSZH |
| **Screen** | Individual and/or overall Al/PET foil | **Standard** | BS 5308, IEC 60228 |

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

## STANDARDS, TESTING AND DOCUMENTS

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|---|---|
| **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

| | |
|---|---|
| **Intrinsically Safe Control Cable** | www.zmscontrolcable.com/products/intrinsically-safe-cables/intrinsically-safe-control-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

**Individual or overall screen?**
Individual screens isolate each pair; an overall screen provides a single barrier. The choice depends on crosstalk and earthing requirements.

**Can you supply thermocouple extension cable?**
Yes, thermocouple extension constructions with matching alloys can be quoted.

**Do you manufacture to BS 5308?**
Yes, BS 5308 constructions are available; share the part number or project specification.

**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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