Flexible Drag Chain Control Cable

HIGH-FLEX · CONTINUOUS MOTION

When a control cable moves all day, conductor stranding and cabling geometry matter as much as the copper cross-section.

RATED VOLTAGE	CONDUCTOR	INSULATION	CORE RANGE
300/500 V	Fine-strand copper, Class 5/6	PVC / TPE	2–37 cores

TYPICAL APPLICATIONS

- Cable carriers and drag chains
- Robot and gantry axes
- Machine tools and pick-and-place systems
- Packaging and handling equipment

CONSTRUCTION

- Fine-strand copper conductors
- High-flex insulation and cabling lay
- Sliding, abrasion-resistant sheath
- Optional overall screen for drive feedback
- Core identification for fast termination

TECHNICAL DATA

Rated voltage	300/500 V	**Sheath**	PVC / PUR
Conductor	Fine-strand copper, Class 5/6	**Bending**	Designed for continuous flexing
Insulation	PVC / TPE	**Standard**	IEC 60227, IEC 60228
Core range	2–37 cores	**Temperature**	-10 °C to +80 °C (PVC)
Cross-section	0.5–2.5 mm²		

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

General Multi-core Control Cable	www.zmscontrolcable.com/products/general-control-cables/general-multi-core-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

How do I choose between PVC and PUR?
PVC is cost-effective for general flexing; PUR is preferred for oil, abrasion and tougher mechanical conditions.

Do you supply screened versions?
Yes, an overall copper braid can be added for VFD and feedback circuits.

Can you match my carrier bend radius?
Share the carrier radius, travel length and speed so we can confirm the construction.

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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