Solar tracking cable for single-axis trackers

TRACKER · ±90°/M

High-flex DC cable for single-axis trackers, where the cable moves every day and the sheath takes the abrasion.

SYSTEM VOLTAGE	FLEX	TORSION	SHEATH
1500 V DC	Class 6	±90 ° per metre	PUR / XLPO

TYPICAL APPLICATIONS

- Single-axis tracker drive and DC harness
- Moving module rows
- Tracker controller supply
- Carport and floating structures

CONSTRUCTION

- Tinned copper, Class 6
- XLPE or XLPO insulation
- PUR or XLPO sheath, abrasion resistant
- Torsion-capable lay length
- Optional pre-fitted MC4-compatible connectors

TECHNICAL DATA

Rated voltage	0.6/1 kV · 1.5 kV DC	**Flex life**	Up to 5 million cycles
Conductor	Tinned copper, Class 6	**Temperature**	−40 °C to +90 °C
Insulation	XLPE / XLPO	**Flame**	IEC 60332-1-2
Sheath	PUR or XLPO	**Standard**	EN 50618, IEC 60228
Torsion	±90 ° per metre	**Packing**	Coils, reels and harness sets

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

PV1-F Solar DC Cable	www.zmsenergycable.com/products/solar-pv-cables/pv1-f-solar-dc-cable/
PV Grounding & Lightning Cable	www.zmsenergycable.com/products/special-energy-cables/pv-grounding-lightning-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

Can you supply complete tracker harnesses?
Yes. Where the tracker layout is fixed, we can quote harness sets cut to length with connectors fitted and labelled per row.

What torsion angle can the cable take?
The standard construction is released for ±90 ° per metre. Higher angles are possible with a different lay length; the tracker geometry should be shared for review.

Is the cable UV rated?
Yes. The sheath compound is UV stabilised and tested to EN 50618 for outdoor exposure.

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.zmsenergycable.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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