Solar farm MV cable for 6–35 kV collector feeders

6–35 KV · XLPE

Three-core XLPE collector cable for the buried medium voltage network inside a solar or wind plant.

RATED VOLTAGE	INSULATION	SCREEN	ARMOUR
6–35 kV	XLPE	Copper wire + tape	STA / SWA

TYPICAL APPLICATIONS

- PV array to inverter station
- Turbine strings to substation
- Buried collector rings and spurs
- Switchgear and transformer links

CONSTRUCTION

- Copper or aluminium conductor, Class 2
- XLPE insulation, semi-conductive screens
- Copper wire screen with copper tape
- Steel tape or steel wire armour
- PE or LSZH oversheath

TECHNICAL DATA

Rated voltage	6/10 · 12/20 · 18/30 · 26/35 kV	**Sheath**	PE or LSZH
Conductor	Copper or aluminium, Class 2	**Cross-section**	35–630 mm²
Insulation	XLPE	**Temperature**	90 °C continuous, 250 °C short circuit
Screen	Copper wire screen + copper tape	**Standard**	IEC 60502-2, IEC 60228
Armour	Steel tape (STA) / steel wire (SWA)	**Packing**	Drums to project lengths

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/
Energy Storage Battery Connection Cable	www.zmsenergycable.com/products/energy-storage-cables/energy-storage-battery-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

Single-core or three-core?
Three-core is the usual choice for plant collector circuits at 35 kV and below. Single-core constructions are available for large sections and difficult routes.

Is water blocking available?
Yes. Longitudinal water blocking tape and powder can be included for buried routes where water ingress is a concern.

What tests are supplied?
Routine tests to IEC 60502-2 are performed on every length. Type test reports and impulse test records can be supplied for the project file.

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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