PV1-F solar cable, 1500 V DC

1500 V DC · TINNED COPPER

Single-core PV cable for module jumpers and string runs, built to IEC 62930 with a cross-linked sheath that is rated for permanent outdoor exposure.

RATED VOLTAGE	CONDUCTOR	INSULATION	STANDARD
0.6/1 kV AC · 1.5 kV DC	Tinned copper, Class 5	XLPE	IEC 62930 / EN 50618

TYPICAL APPLICATIONS

- Module-to-module jumpers
- String runs to combiner boxes
- DC feeder to the inverter
- Rooftop and carport arrays

CONSTRUCTION

- Tinned annealed copper conductor, Class 5
- Cross-linked XLPE insulation
- Cross-linked XLPO sheath, black / red / blue
- UV and ozone stabilised compound
- Optional 2000 V DC rating

TECHNICAL DATA

Rated voltage	0.6/1 kV AC · 1.5 kV DC	**Temperature**	−40 °C to +90 °C, 120 °C max conductor
Conductor	Tinned copper, Class 5 (EN 60228)	**Weather**	UV, ozone and damp heat to EN 50618
Insulation	XLPE	**Flame**	IEC 60332-1-2
Sheath	Cross-linked XLPO	**Standard**	IEC 62930, EN 50618, TÜV 2 PfG 1169
Cross-section	1.5 / 2.5 / 4 / 6 / 10 / 16 / 25 / 35 mm²	**Packing**	100 m / 500 m / 1000 m reels

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

Solar Tracking System Flexible Cable	www.zmsenergycable.com/products/special-energy-cables/solar-tracking-flexible-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

Is PV1-F the same as H1Z2Z2-K?
They are related but not identical. PV1-F is the older German-marked PV cable designation; H1Z2Z2-K is the EN 50618 harmonised type. Both are 1500 V DC, tinned copper, cross-linked constructions. Specify the standard you need on the purchase order.

Can the cable be used at 2000 V DC?
The standard construction is rated 1.5 kV DC. A 2000 V DC variant is available on request for newer 2000 V system architectures.

What length and colour options are available?
Red and black are standard, blue is available for specific string marking. Reels of 100 m, 500 m and 1000 m are standard; cut lengths and pre-terminated harnesses can be quoted.

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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