0.6/1kV Power Cable, PVC or XLPE Insulated

LV POWER CABLES (0.6/1KV)

Copper or aluminium conductor, PVC (70 °C) or XLPE (90 °C) insulation, 1 to 5 cores from 1.5 to 630 mm², sheathed in PVC, PE or LSZH to IEC 60502-1.

VOLTAGE	CORES	SIZE	INSULATION
0.6/1 kV	1 – 5	1.5 – 630 mm²	PVC / XLPE

TECHNICAL DATA

Standard	IEC 60502-1, IEC 60228, IEC 60332-1-2	**Core identification**	Colour to HD 308, or numbered cores above 5 cores
Rated voltage	0.6/1 kV (U0/U)	**Sheath**	PVC ST1/ST2, PE or LSZH; black standard, other colours on request
Conductor	Class 1 solid or Class 2 stranded copper; aluminium on request	**Temperature range**	PVC: −5 °C to +70 °C; XLPE: −15 °C to +90 °C
Cross-section	1.5 – 630 mm² (copper), 16 – 400 mm² (aluminium)	**Bending radius**	12 × overall diameter (fixed installation)
Insulation	PVC type PVC/C (70 °C) or XLPE (90 °C)	**Test voltage**	3.5 kV AC / 5 min between conductors and sheath
Core arrangement	1, 2, 3, 3+1, 4, 4+1, 5 cores; shaped conductor on larger multicore	**Packing**	Steel or wooden drum, 500 m / 1000 m, or 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

Aluminum Conductor LV Cable	www.zmslvcable.com/products/lv-power-cables-0-6-1kv/aluminum-conductor-lv-cable/
Shielded LV Power Cable	www.zmslvcable.com/products/lv-power-cables-0-6-1kv/shielded-lv-power-cable/
Steel Tape Armoured LV Cable	www.zmslvcable.com/products/armoured-lv-cables/steel-tape-armoured-lv-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

What is the current rating of a 4 × 25 mm² cable?
It depends on installation method, ambient temperature, grouping and soil conditions. For a copper XLPE cable in free air at 30 °C, 4 × 25 mm² is typically around 96–110 A; buried or grouped it drops. Send the installation method and we will confirm against IEC 60364-5-52.

Can I get a 3+1 core configuration?
Yes. 3+1 and 4+1 are standard configurations and are usually the most economical way to provide a reduced neutral or a separate earth core.

Do you provide test certificates?
Every batch ships with routine test results (conductor resistance, voltage test, insulation resistance) and a certificate of conformity. Type test reports are available for project documentation.

What is the lead time for a 20 km order?
Standard constructions are typically 15–20 working days after drawing and colour approval, plus sea freight. Confirmed dates are given with the quotation.

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.zmslvcable.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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