Aluminum Conductor LV Cable, 0.6/1kV

LV POWER CABLES (0.6/1KV)

0.6/1kV aluminium conductor cable, XLPE insulated, 16 to 400 mm², for long feeders where conductor weight and cost dominate the selection.

VOLTAGE	CONDUCTOR	SIZE	INSULATION
0.6/1 kV	Aluminium	16 – 400 mm²	XLPE

TECHNICAL DATA

Standard	IEC 60502-1, IEC 60228	**Sheath**	PVC ST2, PE or LSZH
Rated voltage	0.6/1 kV (U0/U)	**Temperature range**	−15 °C to +90 °C (XLPE)
Conductor	Class 1 solid or Class 2 stranded aluminium	**Bending radius**	12 × overall diameter
Cross-section	16 – 400 mm²	**Termination**	Bimetallic lugs or approved transition compound
Insulation	XLPE (90 °C) or PVC (70 °C)	**Packing**	Drum, 500 m / 1000 m or project lengths
Cores	1, 3, 3+1, 4, 4+1		

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

0.6/1kV PVC/XLPE Insulated LV Power Cable	www.zmslvcable.com/products/lv-power-cables-0-6-1kv/pvc-xlpe-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

How much larger must the aluminium conductor be?
Roughly one to two standard sizes above the copper equivalent, depending on the installation method and allowable voltage drop. Send the load and route length and we will calculate the section.

Can aluminium and copper be joined directly?
Not safely. Use bimetallic lugs or an approved transition compound; a direct joint creates a galvanic couple and a hot spot under load.

Is aluminium cable suitable for frequent movement?
No. Aluminium work-hardens and cracks under repeated bending. Use a fine-strand copper flexible cable for moving applications.

Does aluminium cable need special support?
Aluminium has a higher coefficient of expansion, so terminations should allow for movement and long vertical runs need appropriate cleats. Follow the installation guidance supplied with the order.

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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