ABC Aerial Bundled Cable

IEC 60502 · 0.6/1 KV – 33 KV

XLPE-insulated bundled conductors for overhead distribution — safer around trees and buildings, resistant to illegal tapping, and faster to string than bare conductor.

VOLTAGE CLASS	CONFIGURATIONS	INSULATION	STANDARDS
0.6/1 kV – 33 kV	Duplex / triplex / quadruplex	UV-resistant black XLPE	IEC 60502-1/2, BS 7870-5, NFC 33-209

TYPICAL APPLICATIONS

- Low-voltage overhead distribution networks
- House service connections from pole to meter
- Rural electrification and village networks
- MV covered-conductor systems to 33 kV

CONSTRUCTION

- Stranded aluminium phase conductors, XLPE insulated
- Bare or insulated neutral messenger (AAC / AAAC / ACSR)
- Duplex, triplex and quadruplex configurations
- Optional street-light and pilot cores
- UV-stabilised black insulation for outdoor service

TECHNICAL DATA

Rated voltage	0.6/1 kV; 6.35/11 kV; 12.7/22 kV; 19/33 kV	**Standards**	IEC 60502-1/2, BS 7870-5, NFC 33-209
Phase conductor	Stranded aluminium, XLPE insulated	**Max. temperature**	90 °C normal operation (XLPE)
Messenger	AAC / AAAC / ACSR, bare or insulated	**Packing**	500–1000 m on wooden drums
Section range	16–300 mm² phase conductors		

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

AAC Conductor	www.zmsoverheadcable.com/products/aac-conductors/aac-conductor/
AAAC Conductor	www.zmsoverheadcable.com/products/aaac-conductors/aaac-conductor/
Back to aerial bundled cables	www.zmsoverheadcable.com/products/aerial-bundled-cables/

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

Which configuration do I need?
Duplex serves single-phase service drops, triplex adds a second phase or neutral, and quadruplex carries three phases plus neutral for distribution mains. Tell us the load and we will confirm the arrangement.

Bare or insulated messenger?
Bare messengers are standard for LV ABC. Insulated messengers are preferred where clearance to earthed metalwork is limited or local regulations require fully insulated systems.

Can ABC carry street lighting?
Yes. A dedicated street-light core can be added to the bundle, saving a separate lighting conductor on the same poles.

What fittings does ABC use?
Standard suspension and tension clamps, piercing or mechanical connectors. We can supply matching fittings with the cable on request.

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.zmsoverheadcable.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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