PV grounding cable and lightning protection

EARTHING · TINNED COPPER

Flexible tinned copper earthing conductor for module frames, tracker piles, inverter stations and the plant earthing grid.

CROSS-SECTION	CONDUCTOR	SHEATH	USE
16–120 mm²	Tinned copper	LSZH / bare	Bonding and earthing

TYPICAL APPLICATIONS

- Module frame and rail bonding
- Tracker pile and structure earthing
- Inverter and transformer station bonding
- Lightning protection down conductors

CONSTRUCTION

- Tinned copper, Class 5 / 6
- Green-yellow LSZH sheath, or bare conductor
- Corrosion resistant at clamped joints
- Optional copper lug pre-assembly
- Suitable for direct burial with protection

TECHNICAL DATA

Cross-section	16 / 25 / 35 / 50 / 70 / 95 / 120 mm²	**Corrosion**	Tinned surface for damp heat and salt exposure
Conductor	Tinned copper, Class 5 / 6	**Flex**	Class 5 / 6 for structure routing
Sheath	Green-yellow LSZH, or bare	**Standard**	IEC 60228, IEC 62305 (application)
Temperature	−40 °C to +90 °C	**Packing**	Coils of 50 m / 100 m, drums on request

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/
New Energy MV Collector Cable	www.zmsenergycable.com/products/new-energy-collector-cables/new-energy-mv-collector-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

Bare or sheathed conductor?
Bare tinned copper is common for exposed bonding where mechanical protection is provided. A green-yellow LSZH sheath is used where the conductor is accessible and identification matters.

What size is needed for a module frame?
Sizing follows the lightning protection design and local code. The earthing designer should state the conductor size; we supply to that specification.

Are lugs available?
Yes. Tinned copper lugs and heat-shrink can be fitted to cut lengths where the connection points are known.

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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