Medium Voltage Marine Cable for Shipboard Feeders

3.6/6KV TO 26/35KV · XLPE · IEC 60092-354 TO 18/30KV

Screened medium-voltage cable for propulsion converters, main generators and shore-to-ship supply, built to IEC 60092-354 with a copper tape or wire screen.

RATED VOLTAGE	CONDUCTOR	SCREEN	STANDARD
3.6/6 – 26/35kV	Cu / Al, cl. 2	Cu tape / wire	IEC 60092-354 to 18/30kV

TYPICAL APPLICATIONS

- Vessel propulsion feeders
- Marine power-plant outgoing circuits
- High-voltage shore-to-ship supply
- Offshore substation interconnection

CONSTRUCTION

- Compacted copper or aluminium conductor, class 2
- Semiconductive conductor screen
- XLPE insulation to IEC 60092-351
- Semiconductive insulation screen
- Copper tape or copper wire metallic screen with counter helix
- SHF2 or LSZH oversheath to IEC 60092-359

TECHNICAL DATA

Rated voltage	3.6/6kV, 6/10kV, 8.7/15kV, 12/20kV, 18/30kV, 26/35kV	**Sheath**	SHF2 or LSZH compound
Conductor	Compacted copper or aluminium, class 2	**Cross-section**	25 to 630 mm²
Insulation	XLPE (cross-linked polyethylene)	**Flame propagation**	IEC 60332-3-22
Screen	Copper tape or copper wire screen with counter helix	**Construction standard**	IEC 60092-354 (3.6/6–18/30kV); 26/35kV to IEC 60502-2

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 EPR Insulated Marine Power Cable	www.zmsmarinecable.com/products/marine-power-cables/0-6-1kv-epr-insulated-marine-power-cable/
LSZH Flame Retardant Marine Cable	www.zmsmarinecable.com/products/marine-power-cables/lszh-flame-retardant-marine-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 a metallic screen always required?
Yes above 3.6/6kV. The screen carries capacitive charging current and fault current, and it holds the radial field inside the insulation. Screen cross-section is selected from the prospective earth-fault current and clearing time.

Can the cable be used for a variable-frequency drive feeder?
For converter output feeders the screen and the earthing arrangement at both ends must be agreed with the drive supplier. A symmetrical three-core screened construction is normally specified, and the screen is bonded at both ends for VFD duty.

What termination is needed?
Medium-voltage cable requires a class-compatible termination kit rated for the same voltage and screen current. We supply the cable to the ordered length and confirm the termination envelope so the kit can be selected before installation.

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.zmsmarinecable.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.

Tel +86 371 6782 9333
WhatsApp +86 173 0383 6349
info@zmscable.com
www.zmsmarinecable.com