Ship Shore Power Connection Cable

COLD IRONING · CLASS 5 · IEC 60092-353

A flexible shore connection cable that tolerates repeated coiling, quay-side UV exposure and the bending duty of a vessel that calls twice a week.

VOLTAGE	CONDUCTOR	SHEATH	DUTY
0.6/1kV / 6/10kV / 11kV	Flexible cl. 5	SHF2 / CPE, UV	Repeated reeling

TYPICAL APPLICATIONS

- Shore-to-ship cold ironing
- Port fixed shore supply installations
- Reeling and drum applications
- Harbour cranes and shipyard equipment

CONSTRUCTION

- Flexible tinned copper conductor, class 5
- EPR insulation
- Cores laid up with fillers and a binder tape
- Extra-heavy-duty SHF2 or CPE sheath, UV stabilised
- Pilot or control cores to project
- Screened construction for high-voltage variants

TECHNICAL DATA

Rated voltage	0.6/1kV, with 6/10kV and 11kV options for high-voltage shore supply	**Bending duty**	Designed for repeated reeling and coiling
Conductor	Flexible tinned copper, class 5 to IEC 60228	**Operating temperature**	-40 °C to +90 °C
Insulation	EPR	**Construction standard**	IEC 60092-353, IEC 60245 test methods
Sheath	Extra-heavy-duty SHF2 or CPE, UV stabilised	**Options**	Pilot cores, fibre element, connector compatibility to project

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

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 many cores are needed for a shore connection?
It follows from the supply voltage and the required current. Low-voltage cold ironing is usually four-core (three phases and earth) with additional pilot or control cores. High-voltage connections use three screened single cores or a screened three-core construction with a separate earth.

What flexibility is required?
Class 5 stranding is the minimum for a cable that is coiled by hand or on a reel. For a cable that is wound on a powered reel under tension, the bending radius and the reel diameter must be checked against the cable data sheet before the length is ordered.

Does the sheath need to be UV stabilised?
Yes for any cable left on an open quay. Untreated compounds chalk and crack under UV, and the damage is not visible until the sheath fails a test. Our shore power sheath is UV stabilised as standard.

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.

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