Offshore Platform Mud-resistant Cable

IEC 60092-359 · NEK 606 · OIL RESISTANT

A sheath compound selected for drilling mud, mineral oil and hydrocarbon exposure, so the cable survives the deck environment rather than the datasheet.

VOLTAGE	SHEATH	ARMOUR	STANDARD
0.6/1kV	Mud resistant	GSW / bronze	NEK 606

TYPICAL APPLICATIONS

- Offshore drilling platforms
- Production and processing decks
- Drawworks and mud-pump circuits
- FPSO and floating production units

CONSTRUCTION

- Tinned copper conductor, class 2 or 5
- EPR insulation
- Bedding and armour where specified (galvanised steel wire or bronze wire)
- High oil-resistance SHF2 or CPE sheath
- Mud resistance verified to NEK 606
- LSZH variants to IEC 60754 / IEC 61034 on request

TECHNICAL DATA

Rated voltage	0.6/1kV	**Armour**	Galvanised steel wire or bronze wire where specified
Conductor	Tinned copper, class 2 or class 5	**Operating temperature**	-40 °C to +90 °C
Insulation	EPR	**Media resistance**	Drilling mud, mineral oil, hydraulic fluid, sea water
Sheath	High oil-resistance SHF2 or CPE, mud resistant to NEK 606	**Construction standard**	IEC 60092-359, NEK 606

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

What does NEK 606 actually test?
NEK 606 defines mud-resistance testing for offshore cable sheaths, including exposure to base oil and to drilling-fluid blends, with limits on swelling and on tensile and elongation change. A sheath that passes IEC 60092-359 alone is not necessarily mud resistant.

Is armouring required on a platform deck?
Not always, but it is common on cable routes exposed to mechanical damage, and it is mandatory where the cable is buried or run in a hazardous area without conduit. Steel wire armour also provides the earth-continuity conductor required in many offshore installations.

How is the cable marked for traceability?
Each drum carries the cable type, construction, length, drum number and project reference. Batch test reports and sheath compound certificates are issued with the delivery documents.

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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