SHIPBOARD/MARINE POWER CONTROL CABLE SERIES 0.6/1 (1.2) KV

Application

The cable is intended for power lighting and control system of shipboard and off-shore building such as oil
platform. It is also available to metallurgical industry, chemical works, power plant and corporation mining etc.

Construction

Conductor Copper, round stranded acc. to IEC 60228
Insulation HF-XLPE acc. to IEC 60092-351
Core identification Numerical 1-4 Red Yellow Blue Black if earth core in Y/G;
above 4 cores & Order quantity below MOQ in White+number code.
Inner covering Thermoplastic polyolefin LSZH, black (Oxygen Index >32. HCL Emission <0.5%)
Screen/Armour Tinned copper wire braiding
Outer sheath Thermoplastic polyolefin LSZH, black (Oxygen Index >32. HCL Emission <0.5%)
according to IEC 60092-359/360 flame retardant .Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

Standards		**Characteristics**
IEC 60092-350/353	Design	Electrical parameters
IEC 60228	Conductor	Rated voltage 0.6/1 kV
IEC 60092-351	Insulation	Max. permissible operating voltage AC 1.2 kV
IEC 60092-359	Sheath	AC test voltage 2.1 kV
IEC 60332-3-22	Flame Retardant	Current Carrying Capacity description
IEC 60331-21	Fire Resistance	The definitions in IEC 60092-201 apply
IEC 60754-1&2	Halogen Free	Thermal parameters
IEC 61034-1&2	Low Smoke	Permissible temperature at conductor -40°C to +100 °C
UL 1581	Sunlight Resistance	Max. short circuit temperature of the conductor 250 °C
ICEA S-73-532	Oil Resistance	Ambient temperature for fix installation min. -40 °C
		Laying temperature min. -20 °C
		Mechanical parameters
		Max. tensile load on the conductor 50 N/mm²
		Min. bending radius 12 x D

OUR ADVANTAGES

EASY SOLUTIONS

ADAPTABILITY IS ONE OF OUR BEST QUALITESIT PERMIT US TO COPE WITH YOUR REQUE STON A SHORT NOTICE AND EFFEC TIVELY.

NO PRICE FIGHTS

WE ESCAPED THE OLASSICAL REBATE UNTILYOU DROP " POLICY . WE ARE PRICE WISE SINCETHE BEGINNING

HIGH LEVEL EXPERIENCE

QUR TECHNLAL CAPABILITIES HAVE BEENTESTED FOR MORE THAN 30 YEARS ANDIN-DRECT CONNECTION WITH END USERS . SO TOSAY

ENDLESS INVESTIGATION

WE CONTINUOUSY MEASURE EVERYTHINGTEST . TEST AND TESTAGAIN . THIS HELPS NUNDERSTAND RISKS AND REWARDS . ANDBEPREPARED

NO FORTUNE TELLER

WE BASE OUR DECISIONS ON CLEAR BUSIESSPLANS , THINKING BEFORE MAKING OUR STEPSAND KEEPIN-GA'NOTTODO LISTFOR EVERY-OVE OF THEM

TEAM BUILDING

OUR TEAMIS MADE NOT ONLY BY OUR STAFFBUTIT INCLUDES ALSO ALL OUR CUSTOMERSWEACT LIKEA TEAM WEGROW LKEA TEAMWE WINLIKE A TEAM

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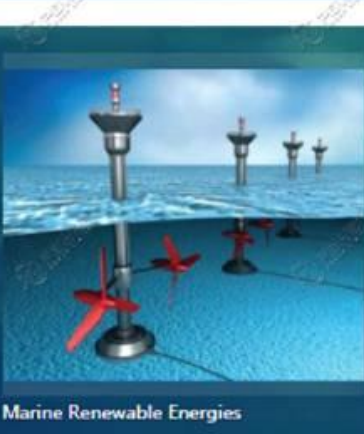
UNDERWATER CABLE

It can be applied to submarine observation network / offshore oil / marine sonar / seismic detection / underwater robot / marine wind power / smart ocean and other fields.

☑ Customized Design ☑ Full Ocean Depth Application
☑ Vertical and Horizontal Watertightness
☑ Photoelectric multi-core Composite Structure ☑ High Tensile Strength


Marine Renewable Energies

Diving

Oil and Gas

Towed Streamers

Submarines

Water Treatment

ROVs & AUVs

Vessels

Geophysics

PRODUCT MIX

Flexible Marine Wire

Flexible marine wire is class 5 copper wire conductor and XLPE or PVC insulation. It is intended for connection between electrical equipment and switchboard or switch on shipboard. Rating voltage is up to 0.6/1kV.

Marine Control Cable

The marine control cable is designed for control systems for marine and shipboard up to 150/250V. It is flame retardant, low smoke, halogen-free. Fire resistant cable as a request. It can be an overall screen or individual screen.

Marine Telephone Cable

Marine telephone cable is also called marine signal cable. It is twisted pair or triple pair, which is designed for telecommunication and information proceeding systems of marine and shipboard. Rating voltage is 150/250V

Marine VFD Cable

Marine variable frequency drive (VFD) cable is designed to carry power from AC drive systems to AC motors. Rating voltage is 0.6/1kV or 1.8/3kV. Marine VFD cable has outstanding electromagnetic compatibility.

Marine Power Cable

Marine power cable also names marine electrical cable. It is designed for power, lighting and control systems up to 0.6/1kV. It is suitable for fixed installation of marine, shipboard and offshore application.

Instrumentation Cable

Offshore Instrumentation cable is designed for instrumentation and information proceeding systems on the offshore platform. It is flame retardant, low smoke, halogen-free. It can be an overall screen or individual screen.

Offshore Wire

The offshore wire is applicable to earthing wire, bonding wire and single wire on the offshore platform for fixed installation up to 0.6/1kV. It is fire retardant,low smoke and halogen free. Flexible cable conductor is also available.

Offshore VFD Cable

Offshore variable frequency drive (VFD) cable is designed to carry power from AC drive systems to AC motors on an offshore platform. Rating voltage is 0.6/1kV or 1.8/3kV. Offshore VFD cable has outstanding electromagnetic compatibility.

Offshore Power Cable

The offshore power cable is applicable to power, lighting and control systems on an offshore platform and intended for fixed installation. It is fire retardant, low smoke, zero halogens, and mud resistant cable is also available.

1. What is marine cable?

Marine cable requires high quality and conformity to the highest maritime standards. It is used for installations in ships and offshore platforms for electrical power distribution to panels, lighting, control circuits, critical instrumentation signals, telephone, etc.

- Transmission
- Communication
- Instrumentation
- Power
- Control

Marine cables need to perform at most ensuring reliability and safety for both passengers and cargo. There are many types/standards of marine cables which are designed and manufactured according to the requirements of crafts. The cables are usually used tinned copper wire conductor, insulation and armored to bear the sea environment and extreme challenges.

2. Marine cable standards

- IEC 60092 standard
- JIS C 3410 standard
- DIN 89158 / 159 / 160
- BS 6883 & BS 7917
- NEK 606 standard
- VG 95218 standard
- UL1309 standard
- IEEE 1580 type P

3. Marine cable specification

Conductor: Stranded tinned copper wire,class2 or class 5
Fire resistant Layer: Mica tape (Fire resistant type)
Insulation: XLPE / EPR
Filler (if necessary)
Tape
Inner sheath: PO / PCP / CSP / PVC
Armor: tinned copper wire braided/galvanized steel wire braided
Outer sheath: PO(SHF 1, SHF2) / PVC

4. Marine cable sizes

Power & control cable
Cores number: 1,2, 3, 4, 5, 7, 8,10, 12, 14, 16,19, 24, 27, 30, 33, 37,48
Nominal Cross-section Areas: 1.0sqmm, 1.5sqmm, 2.5sqmm, 4.0sqmm, 6.0sqmm, 10sqmm,16 mm², 25mm², 35mm², 50mm², 70mm², 95mm², 120mm², 150mm²,185mm², 240mm², 300mm²
Cores (in pairs or triples): 1, 2, 3, 4, 5, 7, 8,10, 12, 14, 16,19, 24, 27, 30, 33, 37
Nominal Cross-section Areas: 0.75sqmm, 1sqmm, 1.5sqmm, 2.5sqmm

5. Marine cable features

- Flame retardant
- Low smoke
- Zero Halogen
- Fire resistant
- Light Weight
- Water Block

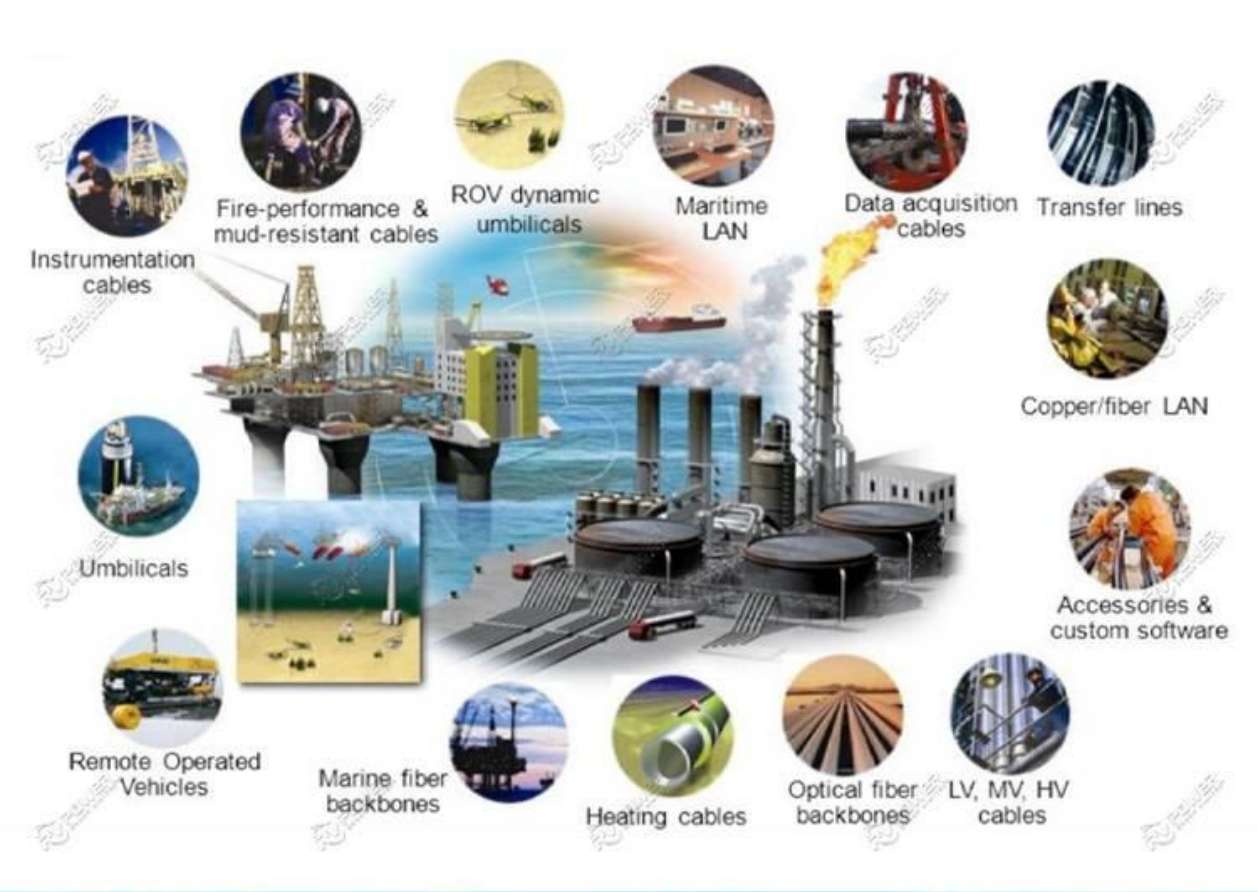
CABLES FOR MARITIME AND UNDERWATER TECHNOLOGIES

Underwater technology, especially at great depths, is challenging. ROVs, used for underwater inspection, survey and search work,Require cables with high performance and reliability for efficient and accurate control, providing the required strength to support the vehicle.Cables and tethers used for Remotely Operated Vehicles represent the vital connection between the vehicle and the vessel.These products include: neutrally buoyant tethers, Kevlar strength member cables, hybrid cables.

We has many years of knowledge and experience manufacturing cables for the ROV.We offer a complete range of standard communication, video, power and combined service cables, designed to meet the extreme pressures of the subsea environment. Whatever your diving application needs, we can create flexible, cost-effective engineering solutions to suit your requirements and your budget.

SUBSEA CABLES TYPE

ROV Tether Cable
ROV Umbilicals Cable
Diver umbilical
Pool robotic cleaner cable
Neutrally Buoyant Cables
Diver Communications Cable
Underwater Video Cable – Diver
CCTV Inspection Crawler Video Cables
Underwater Fiber Optic Cable
Underwater Instrumentation Cable
Underwater Multiconductor Power & Control Cable
Underwater Ethernet Cable
Sidescan Sonar Tow Cable
Coax Oceanoghraphic Tow Cable
Push-rod Cables
Polyurethane or Polyethylene Jacketed Cables
Composite Underwater Communication Cables
PUR underwater umbilical hybrid Optical
Custom Cable Designs



SHIPBOARD/MARINE POWER CONTROL CABLE SERIES 0.6/1 (1.2) KV

DETAIL DISPLAY

ONE

LONG DISTANCE DATA TRASMISSION

Conductors: Stranded Pure/ tin copper conductors for flexibility and corrosion resistance. Light weight, low dielectric copolymer insulation with great mechanical and moisture resistance.

TWO

RESILIENT, FLEXIBLE AND NEUTRALLY BOUYANT ONE SINGLE LONG CONTINUOUS LENGTH REQUIRED

Custom ROV cables using tried and proven components for power, video, data, etc., which areavailable for your design, providing shorter lead times.

THREE

WATER BLOCKED CABLE

Water block flooding compounds offered to each specific design are light wgt and fully encapsulating, design for extreme ocean depths and pressures, salt and oil resistant elastomeric and thermosetting

FOUR

HIGH BREAKING STRENGTH

Strength Layer: Light weight Kevlar fibers are designed into each cable construction to meet specific ROV intended use for maximum strength and longevity.

FIVE

SMALL SIZED. LIGHT . PRESSURE RESISTANT . ABRASION/ EROSION RESISTANT

Jacket Materials are chosen for optimal bonding, moisture and mechanical resistance. Each ROV cable is uniquely designed for specific ROV types using PE, TPE, PUR, and foam variations for flotation.

OIL RESISTANT
FLAE RESISTANT
HF HALOGEN FREE
COLD RESISTANT
ABRASION RESISTANT
OZONE RESISTANT
UV RESISTANT
MICROBE RESISTANT
MUD RESISTANT
WATER RESISTANT