# UNDERWATER MULTI-CONDUCTOR CABLES

Features

Rugged multiconductor cables are designed for:Continuous underwater use in freshwater or seawater

POLYURETHANE JACKETED UNDERWATER CABLE-40°C to 90°C

| | | |
|---|---|---|
| Cable Properties | CONDUCTORS:<br>Pure/ Tinned copper for improved corrosion protection and high strand counts for flexibility. | polyurethane jacket:<br>• Improves abrasion and cut through resistance<br>• Premium-grade polymer insulation with low moisture absorbtion characteristics<br>• 7km depth rated pressure resistant waterblocked core<br>• Provides a solid cable for various marine applications |
| | INSULATION:<br>Premium grade, moisture resistant polymer. Good heat resis tance for soldering and heat molding terminations. Minimum temperature rating of 90°C. | |
| | SHIELDS:<br>Optional shields may be ordered with an overall light weight aluminm/mylar 100% coverage or braided tin copper 85%<br>min coverage.<br>*Some constructions are stocked standard with aluminum mylar shields. | |
| | WATER BLOCK:<br>Flexible, clean stripping, pressure resistant elastomer filled-in intrestices. | |
| | JACKETS:<br>polyurethane features high abrasion and cut through resistance, 90°C | |

## OUR ADVANTAGES

**EASY SOLUTIONS**

ADAPTABILITY IS ONE OF OUR BEST QUALITESIT PERMIT US TO COPE WITH YOUR REQUESTON A SHORT NOTICE AND EFFECTIVELY.

**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 ANDINDRECT CONNECTION WITH END USERS . SO TOSAY

**ENDLESS INVESTIGATION**

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

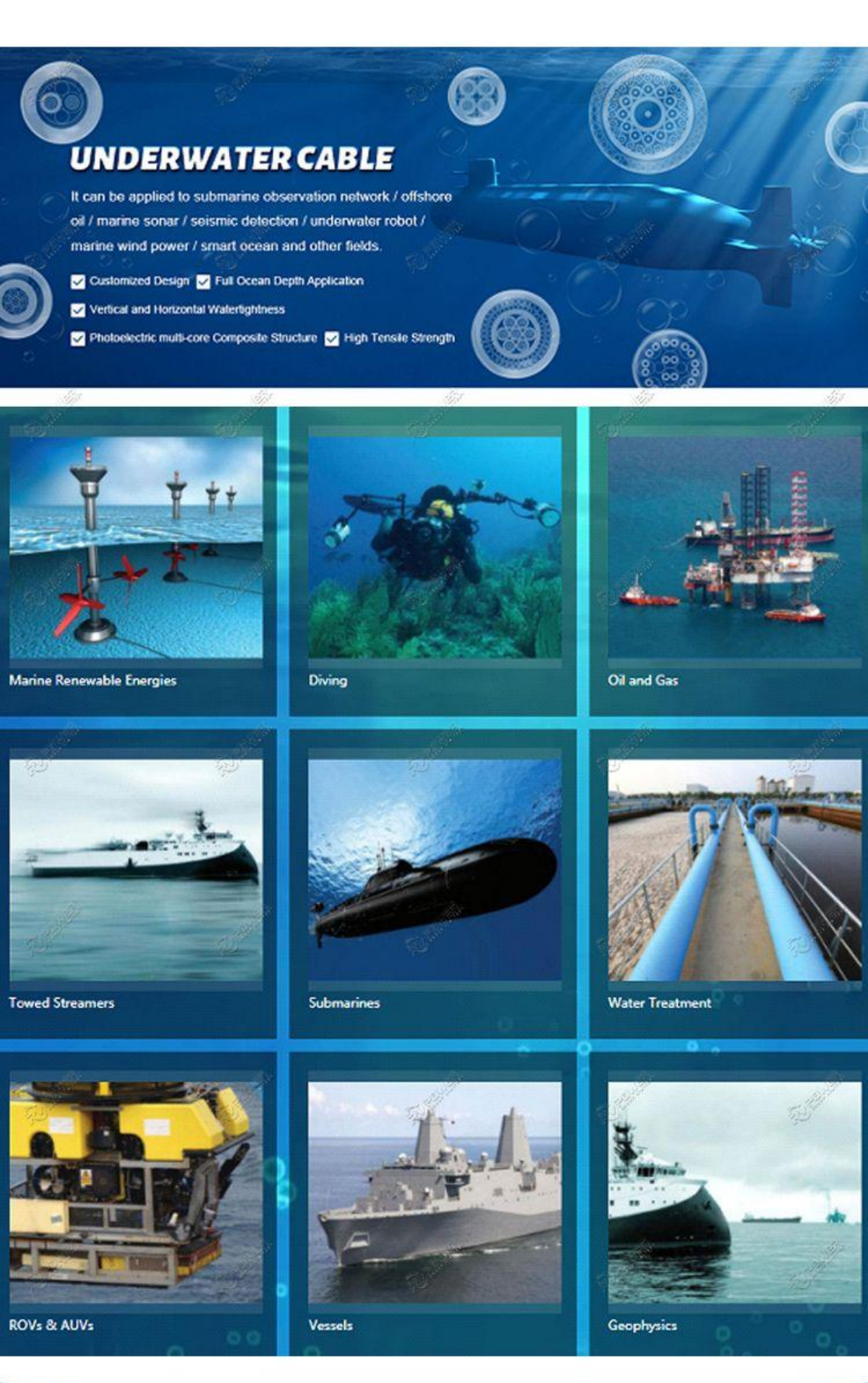
**NO FORTUNE TELLER**

WE BASE OUR DECISIONS ON CLEAR BUSIESSPLANS , THINKING BEFORE MAKING OUR STEPSAND KEEPINGA'NOTTODO LISTFOR EVERYOVE 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

## UNDERWATER MULTI-CONDUCTOR CABLES



UNDERWATER CABLE

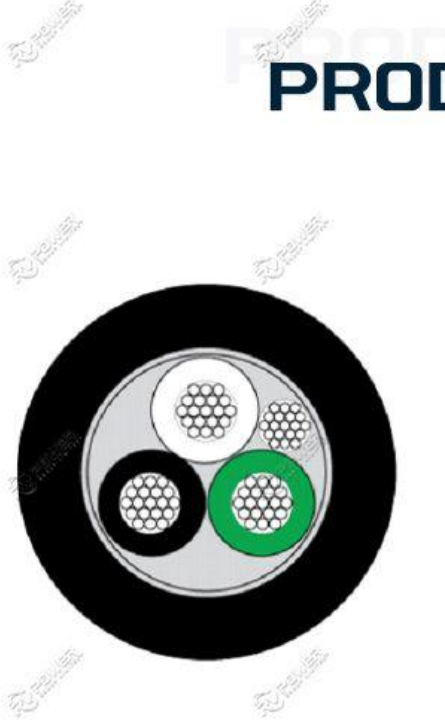
It can be applied to submarine observation network / offshore oil / marine sonar / seismic detection / underwater robot / marine wind power / smart ocean and other fields.

☑ Customized Design ☑ Full Ocean Depth Application

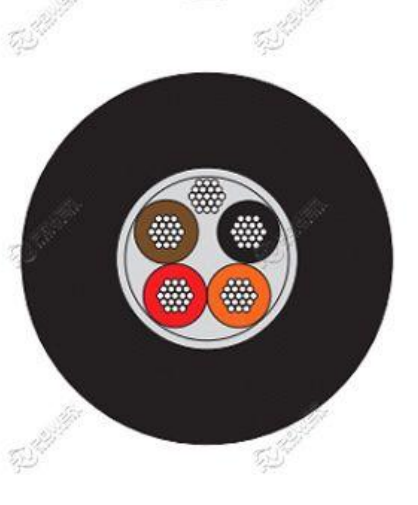
☑ Vertical and Horizontal Watertightness

☑ Photoelectric multi-core Composite Structure ☑ High Tensile Strength

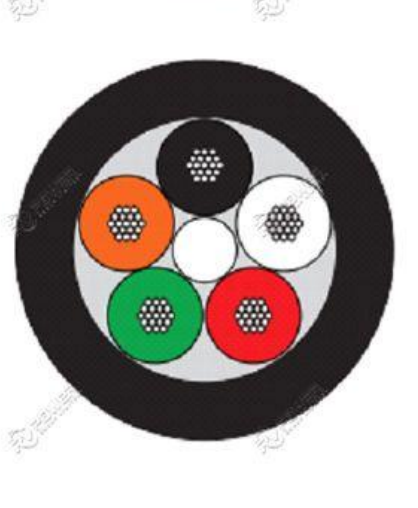
## PRODUCT MIX



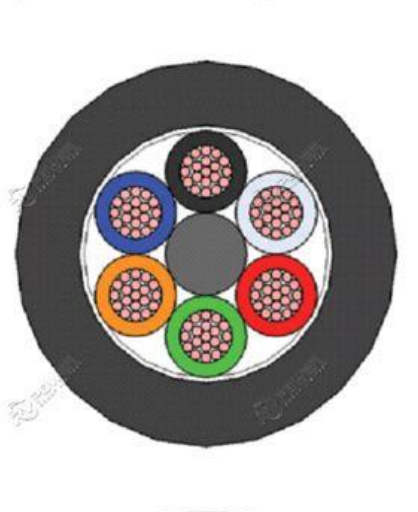
3 conductors
Overall screen with foil and drain wire
Nominal cable OD: 0.259'', 6.58 mm



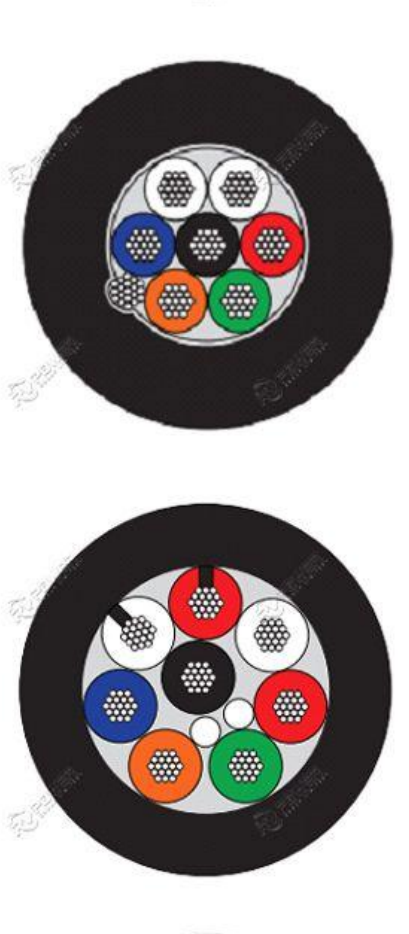
4 conductors
Overall screen with foil and drain wire
Nominal cable OD: 0.311'', 7.90 mm



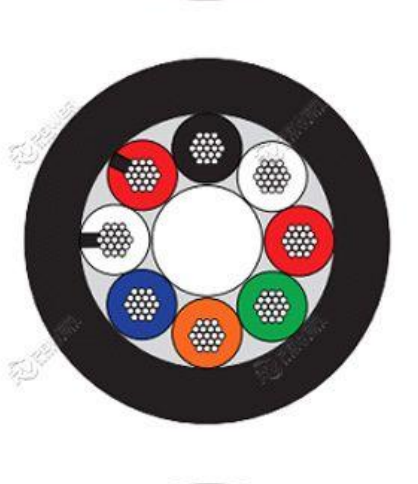
5 conductors
Nominal cable OD: 0.256'', 6.50 mm



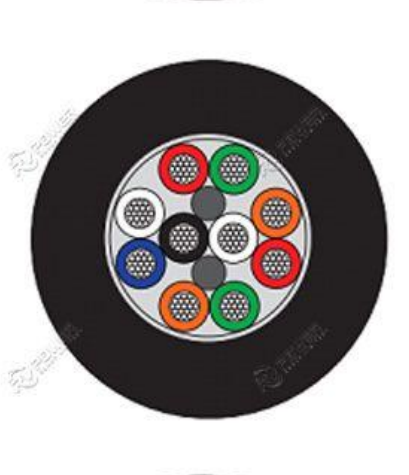
6 conductors, 22 AWG
Nominal cable OD: 0.250'', 6.35 mm



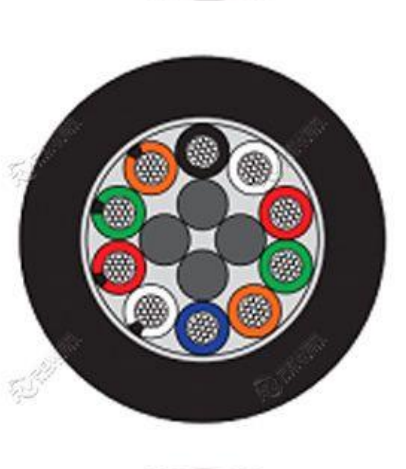
7 conductors,
Overall screen with foil and drain wire
Nominal cable OD: 0.315'', 8.00 mm



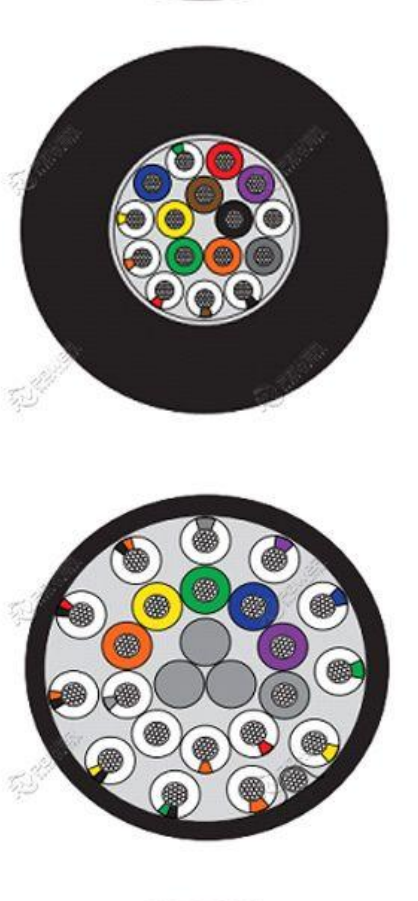
8 conductors, 22 AWG
Nominal cable OD: 0.300'', 7.62 mm



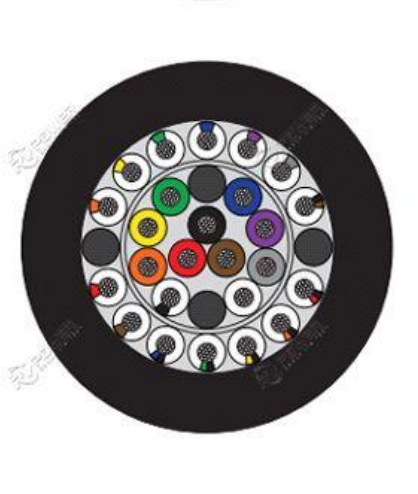
8 conductors, 20 AWG
Nominal cable OD: 0.354'', 9.00 mm



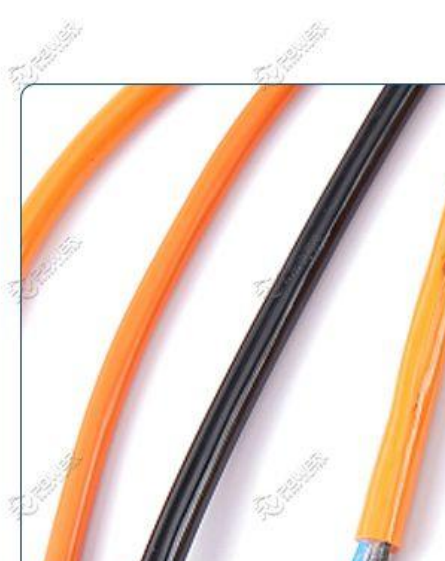
10 conductors,
Nominal cable OD: 0.420'', 10.67 mm



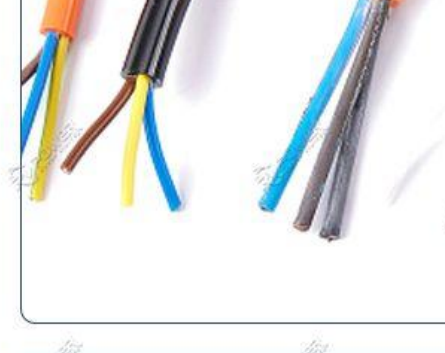
10 conductors,
Nominal cable OD: 0.570'', 14.48 mm



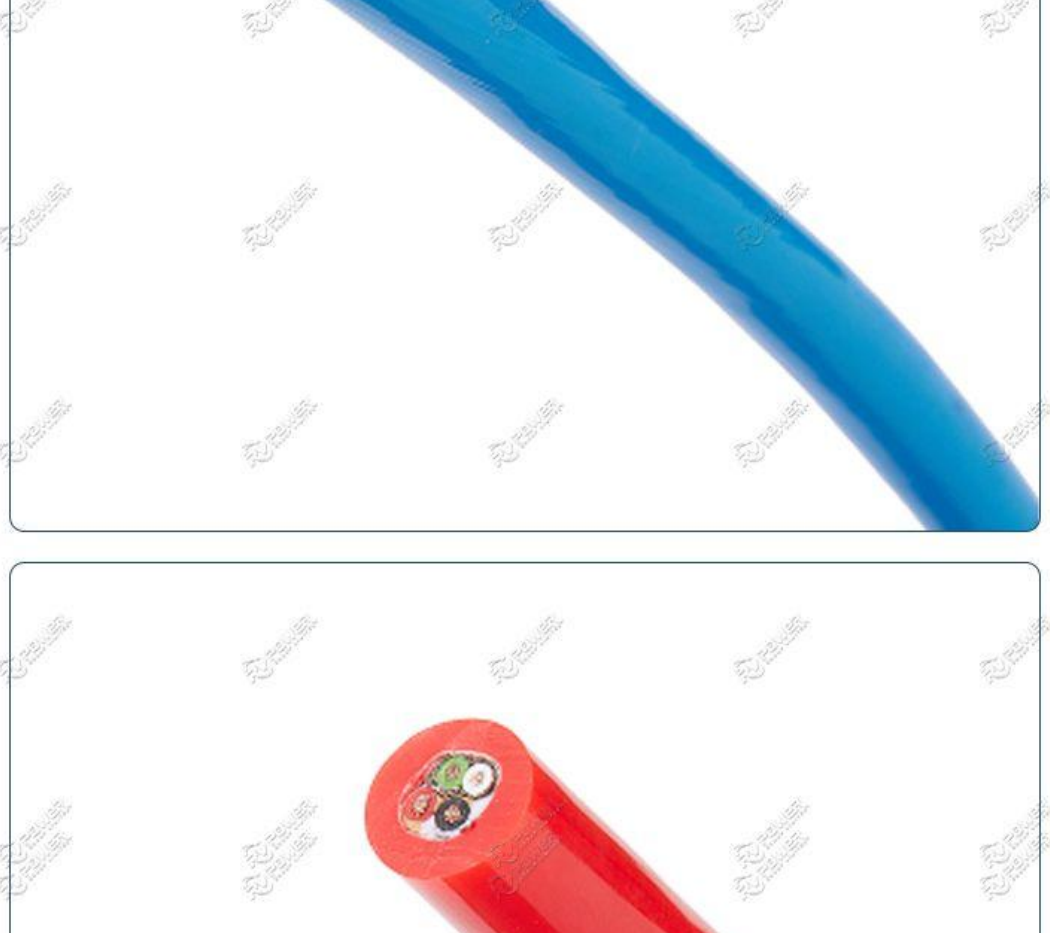
16 conductors
Overall screen with foil and drain wire
Nominal cable OD: 0.415'', 10.55 mm

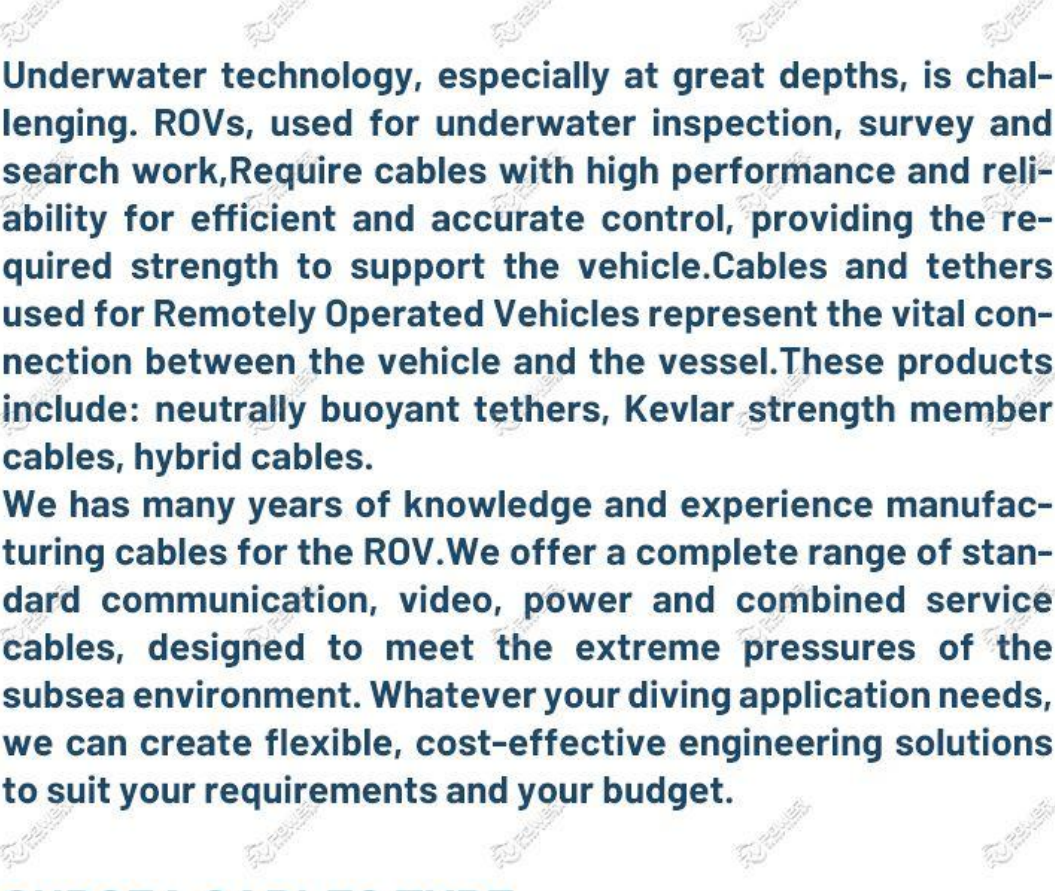


21 conductors,
Overall screen with foil and drain wire
Nominal cable OD: 0.578'', 14.70 mm



25 conductors,
Nominal cable OD: 0.589'', 14.96 mm





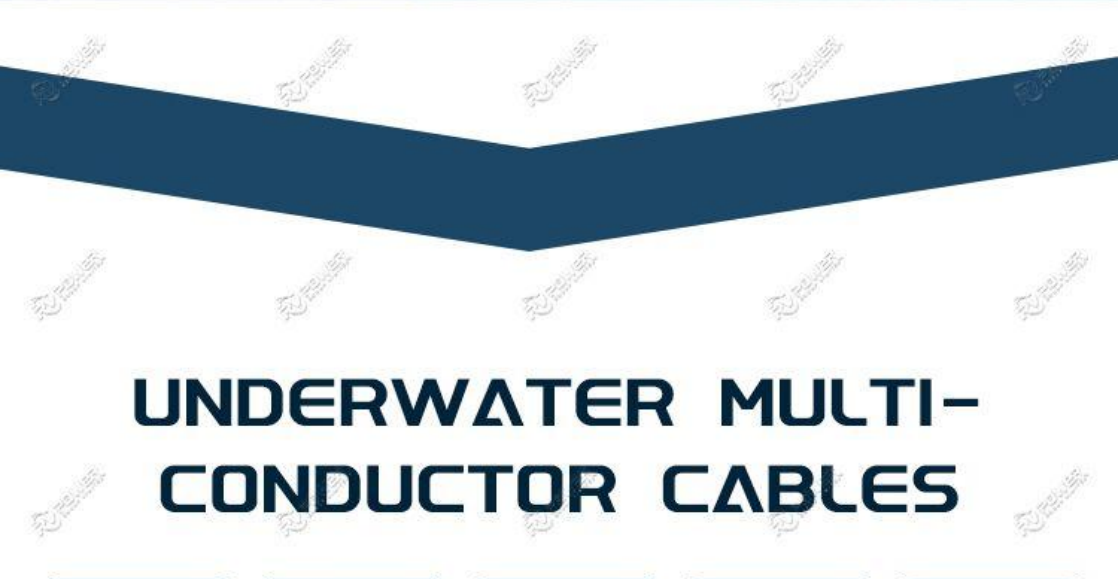
## CABLES FOR MARITIME AND UNDERWATER TECHNOLOGIES

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 Oceanographic Tow Cable
- Push-rod Cables
- Polyurethane or Polyethylene Jacketed Cables
- Composite Underwater Communication Cables
- PUR underwater umbilical hybrid Optical
- Custom Cable Designs



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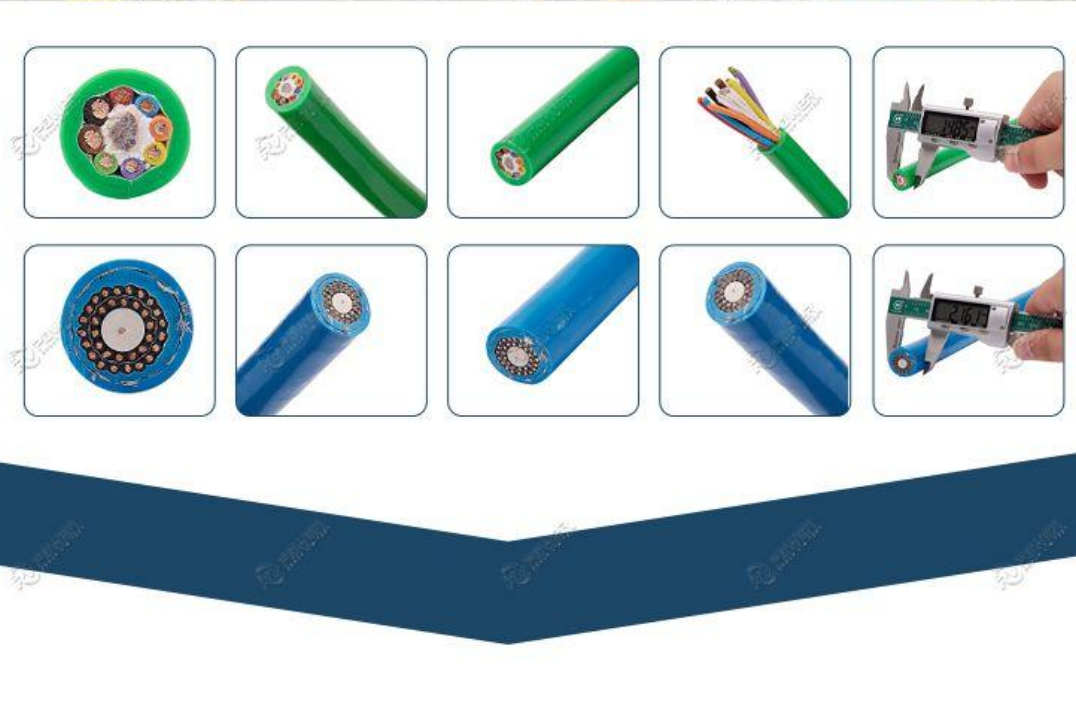
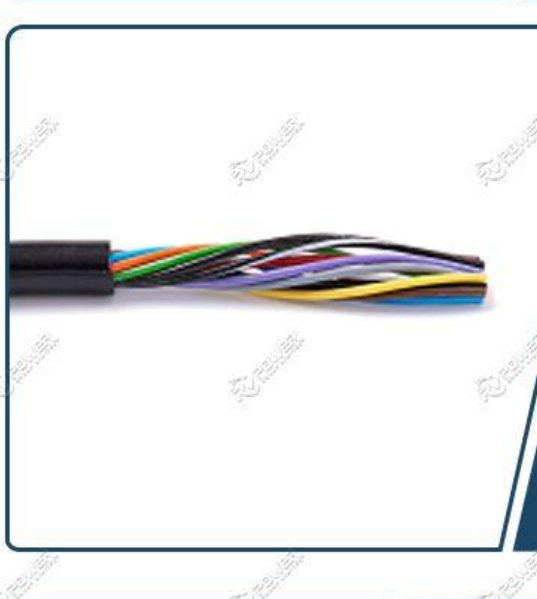


## DETAIL DISPLAY



ONE

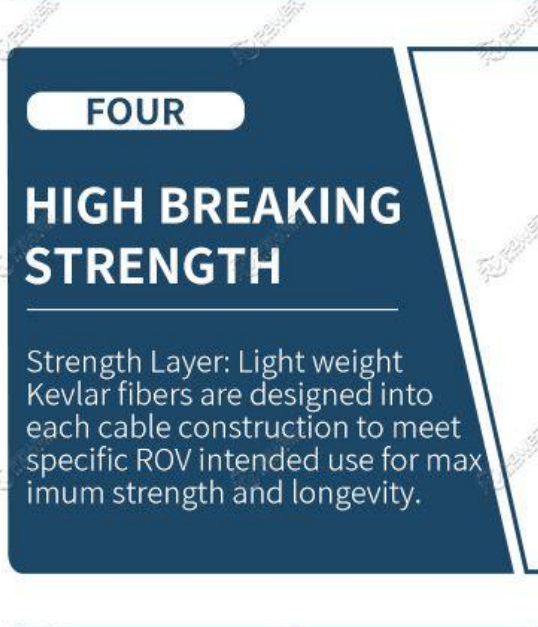
**LONG DISTANCE DATA TRASMISSION**

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

HALOGEN FREE

COLD RESISTANT

ABRASION RESISTANT

OZONE RESISTANT

UV RESISTANT

MICROBE RESISTANT

MUD RESISTANT

WATER RESISTANT