SUBMERSIBLE PUMP CABLE

GENERAL

The submersible pump cables are the cables used in well casing for supplying current to the submersible pump. Once the cable is enclosed it is not subjected to repetitive handling during rapid servicing of the entire submersible pump unit.

- Tough & Flexible UV resistance.
- Excellent dry and wet Electrical Properties.
- Various voltage rating for different applications: 300/500 V or 600/1000 V
- Conforming to International Standards: UL83, IEC60502-1 and IEC 60228
- Suitable for wide temperature range: -40° C to 105° C.

TYPES

The submersible pump cables are mainly available in Flat or Round types of cables. Both
Round and Flat are categorized as 3 cores and 4 cores cables.

APPLICATIONS

To supply power to submersible pumps in a deep bore well for

- Irrigations.
- Drinking Water Supply.
- Mine Dewatering.
- Industries.
- Swimming Pools.
- Fountains.
- Offshore Drilling Rigs.
- Sewage Treatment Plants.
- Sea Water Filtration Plants.
- Aquariums.

Submersible Pump
Submersible Pump

Flexible Conductor: Class 5
Oxygen Free, Tinned Copper for Corrosion Resistance
Minimum Service Temperature: -30°C
Maximum Service Temperature: 75°C
Maximum Short Circuit Temperature: 160°C (Max 5s)
Impact Resistant
Grease & Mineral Oils Resistant
Chemical & Oil Resistant
UV Resistant
Water Resistant
Halogen Free
Submersible Pumps
Metre Marking
Minimum Recommended Bend Radius Fixed 4 x OD

strong
×
durable

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

strong
×
durable

TPE ROUND DEEP-WELL SUBMERSIBLE WATER PUMP CABLE

APPLICATION:
POWER AND CONTROL CABLE FOR PUMPS AND OTHER SUBMERGED EQUIPMENT. FOR USE IN DEEP UNDERWATER APPLICATIONS

SUBMERSIBLE	SUITABLE FOR PERMANENT DEEP WATER INSTALLATIONS
EXTREMELY FLEXIBLE	FLEXIBLE CABLE USING CLASS 5 CONDUCTORS
EASY TO INSTALL	FLEXIBLE INSULATION AND SHEATH FOR USE IN CONFINED APPLICATIONS
EASY TO FIT	CABLE MANUFACTURED TO FIT COMMON GLAND SIZES
SUITABLE FOR OUTDOORS	UV RESISTANT SHEATH EXTENDS LIFE IN EXPOSED ENVIRONMENTS
CHEMICAL RESISTANCE	EXCELLENT RESISTANCE TO ACIDS, ALKALIS, SEWERAGE AND OZONE
EXCELLENT SCREENING	TINNED COPPER BRAID REDUCES EMI FROM SURROUNDING ENVIRONMENT

☒ FINE CONDUCTOR STRANDING FOR HIGH FLEXING
☒ OXYGEN FREE TINNED COPPER FOR HIGH CONDUCTIVITY SOLDERED CONNECTIONS AND CORROSION PROTECTION
☒ TINNED COPPER BRAID WITH 85% MINIMUM COVERAGE PROVIDES EXCELLENT EMI PROTECTION
☒ TPV INSULATION AND SHEATH PROVIDES EXCELLENT OZONE, WATER, CHEMICAL AND WEATHERING RESISTANCE
☒ ALL CABLES HAVE SPECIFIC DIAMETERS TO SUIT COMMON GLAND SIZES

CONSTRUCTION
- CONDUCTOR

HIGH PURITY ELECTROLYTIC GRADE BRIGHT ANNEALED FLFLEXIBLE BUNCHED COPPER CONDUCTOR ACCORDING
- INSULATION

TPE FLEXIBLE COMPOUND , SPECIALLY DEVELOPED COMPOUND WITH 105° C TEMPERATURE RATED , AND BRITTLEN-AESS TEMPERATURE -45° C, FLFLAME RETARDANT,
- SHEATH

TPE FLFLEXIBLE COMPOUND, SPECIALLY DEVELOPED, 105° C RATED TEMPERATURE. FLAME RETARDANT, HIGHHEAT RESISTANT, LOW TEMPERATURE FLFLEXIBILITY AND SUN LIGHT RESISTANT OUTER SHEATH.

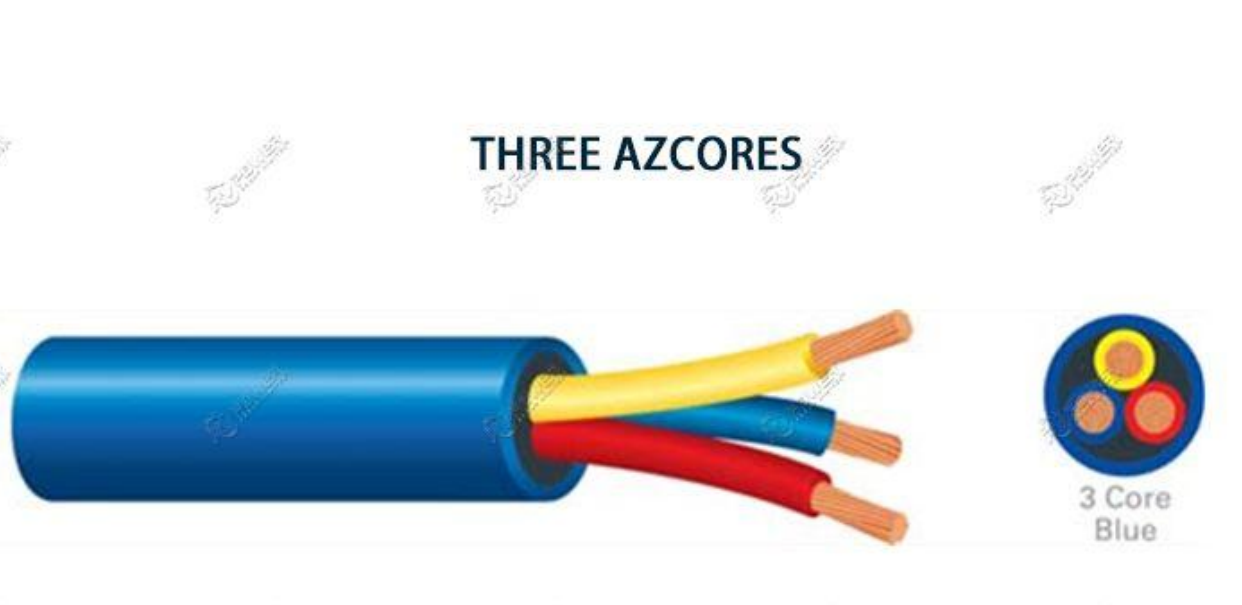
STANDARDS
IEC 60502-1

WORKING VOLTAGE UO/U
30AZ0/500 V OR 600 / 1000 V

TEMPERATURE RANGE
-45° C TO 105° C

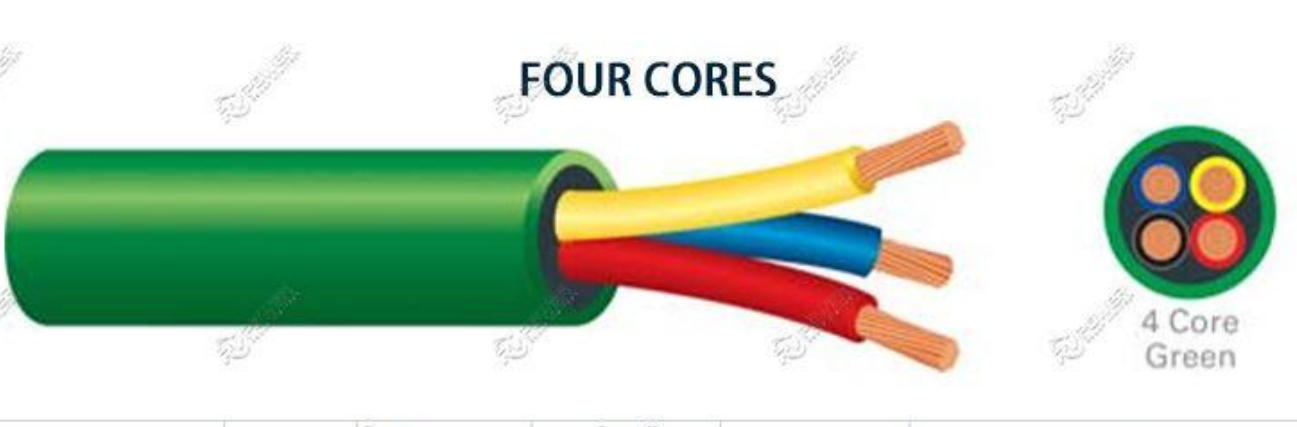
COLAOR CODE	3 CORE	4 CORE
LOREM IPSUM	BROWN ,BLUE, GREEN/YELLOW BLUE/BLACK	BROWN ,BLUE,BLACK. GREEN/YELLOW BLUE/BLACK

THREE AZCORES



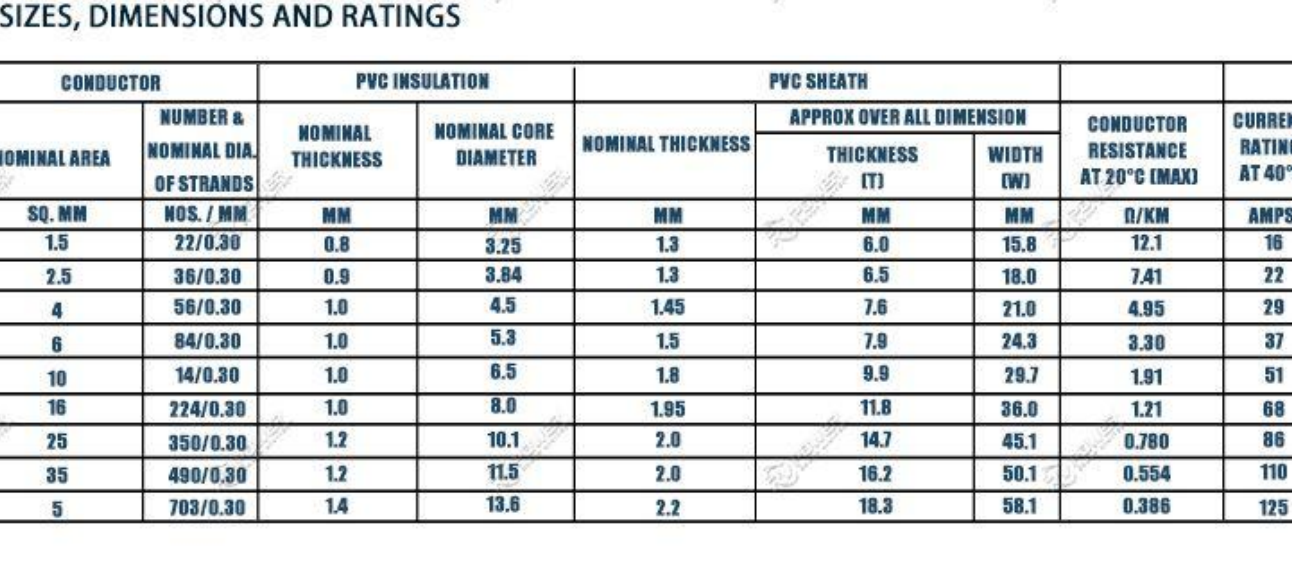
Conductor Size (mm2)	Conductor Size (mm3)	Conductor Size (mm4)	Conducto r Size (mm5)	Conducto r Size (mm7)	Conductor Size (mm9)
2.5	0.76	0.38	8	7.98	
4.0	0.76	0.38	9	4.95	
6.0	0.76	0.38	11	3.30	
10	1.14	0.76	15	1.91	
16	1.52	0.76	18	1.21	
25	1.52	0.76	22	0.78	
35	1.52	0.76	25	0.554	
50	1.52	1.14	28	0.386	
70	1.52	1.14	34	0.272	

FOUR CORES



Conductor Size (mm2)	Insulation Thickness (mm)	Outer Sheath Thickness (mm)	Overall diameter Approx. (mm)	Max. DC Resistant)Ohm/Km)	Standard Length (m±2%)
2.5	0.76	0.38	9	7.98	1000
4.0	0.76	0.38	10	4.95	1000
6.0	0.76	0.38	12	3.30	1000
10	1.14	0.76	17	1.91	1000
16	1.52	0.76	22	1.21	1000
25	1.52	0.76	24	0.78	1000
35	1.52	0.76	28	0.554	1000
50	1.52	1.14	32	0.386	1000
70	1.52	1.14	37	0.272	1000

3 CORE PVC FLAT SUBMERSIBLE CABLE



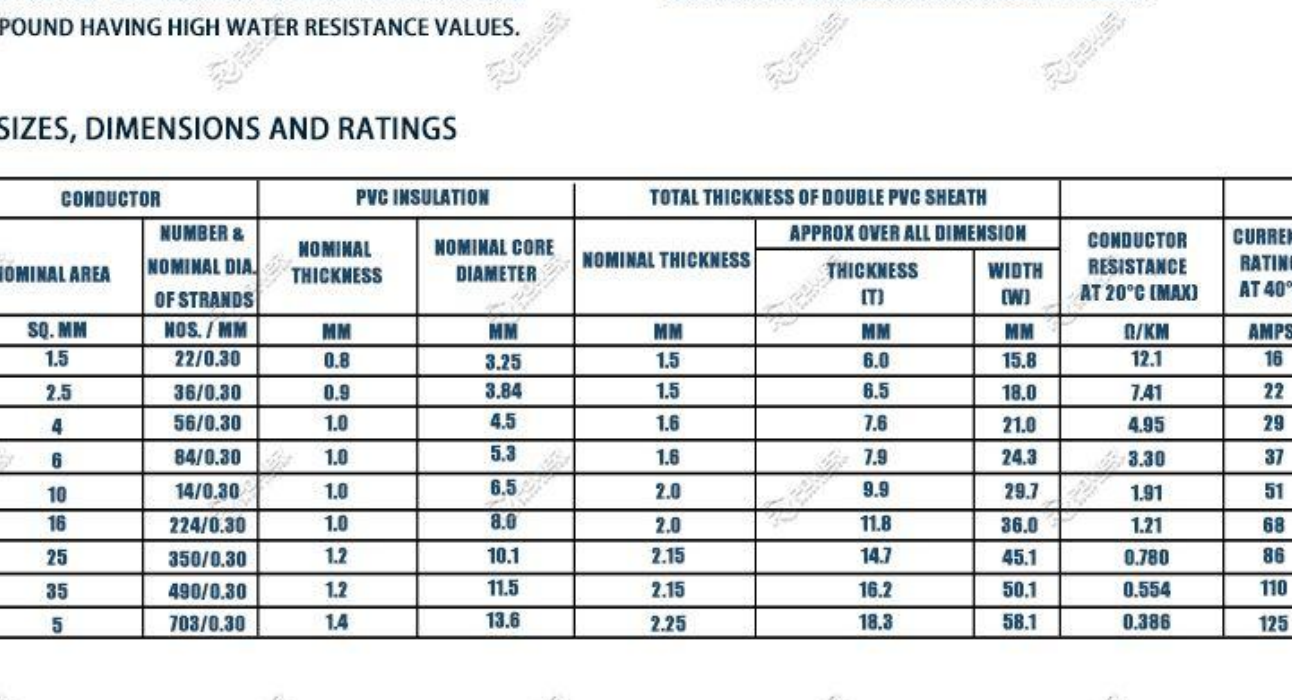
APPLICATION : IDEAL FOR IRRIGATION PUMPS, DRINKING WATER SUPPLY PUMPS, OFFSHORE DRILLING RINGS, FIRE-FIGHTING EQUIPMENTS, SEWAGE TREATMENT PLANTS, SEA WATER HANDLING EQUIPMENTS, ETC.
CONDUCTOR : THIN STRANDS OF ELECTROLYTIC COPPER HAVING HIGHEST PURITY, LEAST RESISTANCE ARE MULTI DRAWN FOR UNIFORMITY IN DIMENSION AND FLEXIBILITY.
INSULATION : THE CONDUCTORS ARE INSULATED WITH SPECIALLY FORMULATED SUPER FLEXIBLE PVC COMPOUND HAVING HIGH INSULATION RESISTANCE VALUES.

SHEATHING : 3 CORES ARE IN PARALLEL POSITION AND SHEATHED WITH HIGH ABRASION RESISTANT PVC COMPOUND IMPERVIOUS TO GREASE, OIL, WATER, ETC.
BENEFITS : TOUGH AND FLEXIBLE CABLE PROVIDES SAFETY, EXCELLENT MOISTURE & WEATHER RESISTANCE, BEST QUALITY OF ELECTROLYTIC GRADE COPPER SAVES POWER, HIGH ABRASION RESISTANCE, WIDE TEMPERATURE RANGE : -15° C TO 70° C.
MARKING : THE CABLES ARE MARKED BY METER

SIZES, DIMENSIONS AND RATINGS

CONDUCTOR		PVC INSULATION		PVC SHEATH				
					APPROX OVER ALL DIMENSION			
NOMINAL AREA	NUMBER & NOMINAL DIA. OF STRANDS	NOMINAL THICKNESS	NOMINAL CORE DIAMETER	NOMINAL THICKNESS	THICKNESS (T)	WIDTH (W)	CONDUCTOR RESISTANCE AT 20°C (MAX)	CURRENT RATING AT 40°C
SQ. MM	NOS. / MM	MM	MM	MM	MM	MM	Ω/KM	AMPS.
1.5	22/0.30	0.8	3.25	1.3	6.0	15.8	12.1	16
2.5	36/0.30	0.9	3.84	1.3	6.5	18.0	7.41	22
4	56/0.30	1.0	4.5	1.45	7.6	21.0	4.95	29
6	84/0.30	1.0	5.3	1.5	7.9	24.3	3.30	37
10	14/0.30	1.0	6.5	1.8	9.9	29.7	1.91	51
16	224/0.30	1.0	8.0	1.95	11.8	36.0	1.21	68
25	350/0.30	1.2	10.1	2.0	14.7	45.1	0.780	86
35	490/0.30	1.2	11.5	2.0	16.2	50.1	0.554	110
5	703/0.30	1.4	13.6	2.2	18.3	58.1	0.386	125

4 CORE PVC FLAT SUBMERSIBLE CABLE



APPLICATION : IDEAL FOR IRRIGATION PUMPS, DRINKING WATER SUPPLY PUMPS, OFFSHORE DRILLING RINGS, FIRE-FIGHTING EQUIPMENTS, SEWAGE TREATMENT PLANTS, SEA WATER HANDLING EQUIPMENTS, ETC.
CONDUCTOR : THIN STRANDS OF ELECTROLYTIC COPPER HAVING HIGHEST PURITY, LEAST RESISTANCE ARE MULTI DRAWN FOR UNIFORMITY IN DIMENSION AND FLEXIBILITY.
INSULATION : THE CONDUCTORS ARE INSULATED WITH SPECIALLY FORMULATED SUPER FLEXIBLE PVC COMPOUND HAVING HIGH WATER RESISTANCE VALUES.

SHEATHING : 4 CORES ARE IN PARALLEL POSITION AND SHEATHED WITH HIGH ABRASION RESISTANT PVC COMPOUND IMPERVIOUS TO GREASE, OIL, WATER, ETC.
BENEFITS : TOUGH AND FLEXIBLE CABLE PROVIDES SAFETY, EXCELLENT MOISTURE & WEATHER RESISTANCE, BEST QUALITY OF ELECTROLYTIC GRADE COPPER SAVES POWER, HIGH ABRASION RESISTANCE, WIDE TEMPERATURE RANGE : -15° C TO 70° C.
MARKING : THE CABLES ARE MARKED BY METER

SIZES, DIMENSIONS AND RATINGS

CONDUCTOR		PVC INSULATION		TOTAL THICKNESS OF DOUBLE PVC SHEATH				
					APPROX OVER ALL DIMENSION			
NOMINAL AREA	NUMBER & NOMINAL DIA. OF STRANDS	NOMINAL THICKNESS	NOMINAL CORE DIAMETER	NOMINAL THICKNESS	THICKNESS (T)	WIDTH (W)	CONDUCTOR RESISTANCE AT 20°C (MAX)	CURRENT RATING AT 40°C
SQ. MM	NOS. / MM	MM	MM	MM	MM	MM	Ω/KM	AMPS.
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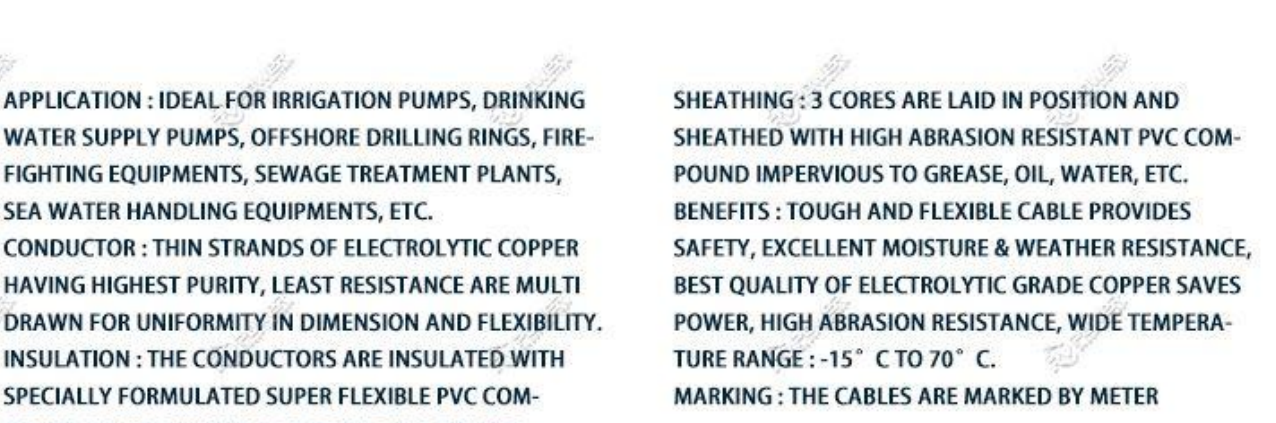
6	84/0.30	1.0	5.3	1.6	7.9	24.3	3.30	37
10	14/0.30	1.0	6.5	2.0	9.9	29.7	1.91	51
16	224/0.30	1.0	8.0	2.0	11.8	36.0	1.21	68
25	350/0.30	1.2	10.1	2.15	14.7	45.1	0.780	86
35	490/0.30	1.2	11.5	2.15	16.2	50.1	0.554	110
5	703/0.30	1.4	13.6	2.25	18.3	58.1	0.386	125

3 CORE PVC ROUND SUBMERSIBLE CABLE



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SHEATHING : 3 CORES ARE LAID IN POSITION AND SHEATHED WITH HIGH ABRASION RESISTANT PVC COMPOUND IMPERVIOUS TO GREASE, OIL, WATER, ETC.
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MARKING : THE CABLES ARE MARKED BY METER

SIZES, DIMENSIONS AND RATINGS

CONDUCTOR		PVC INSULATION		TOTAL THICKNESS OF DOUBLE PVC SHEATH			
NOMINAL AREA	NUMBER & NOMINAL DIA. OF STRANDS	NOMINAL THICKNESS	NOMINAL CORE DIAMETER	NOMINAL THICKNESS	APPROX OVER ALL DIMENSION	CONDUCTOR RESISTANCE AT 20°C (MAX)	CURRENT RATING AT 40°C
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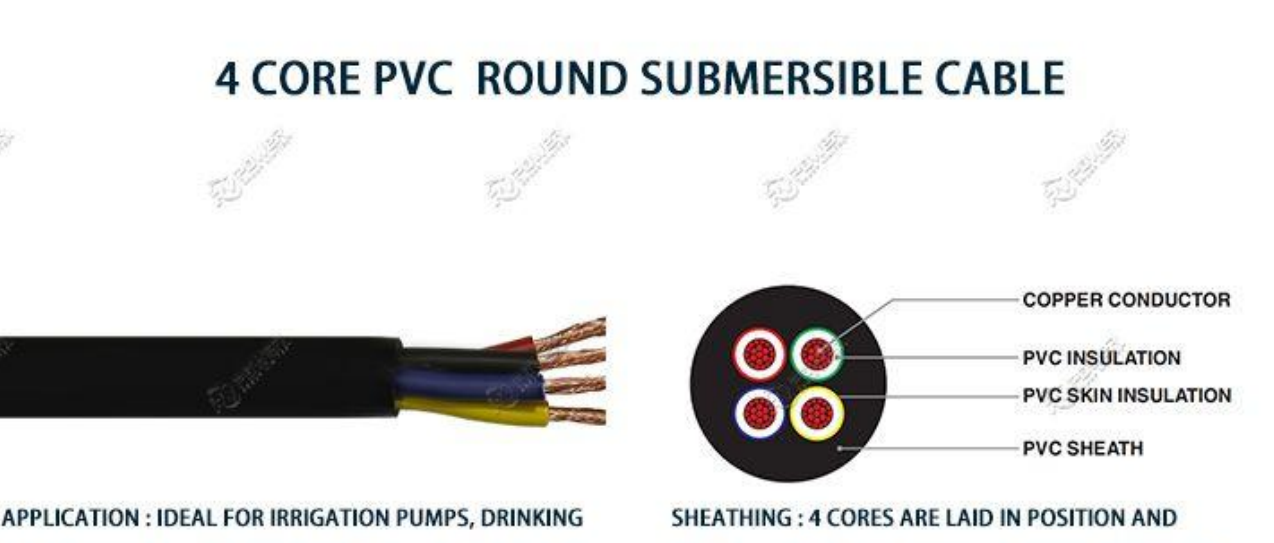
10	14/0.30	1.0	6.5	1.8	18	1.91	51
16	224/0.30	1.0	8.0	1.95	21.2	1.21	68
25	350/0.30	1.2	10.1	2.0	26	0.780	86
35	490/0.30	1.2	11.5	2.0	28.3	0.554	110
5	703/0.30	1.4	13.6	2.2	33.5	0.386	125

4 CORE PVC ROUND SUBMERSIBLE CABLE



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SIZES, DIMENSIONS AND RATINGS

CONDUCTOR		PVC INSULATION		TOTAL THICKNESS OF DOUBLE PVC SHEATH			
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35	490/0.30	1.2	11.5	2.2	31.5	0.554	110
5	703/0.30	1.4	13.6	2.3	37.3	0.386	125

strong
×
durable

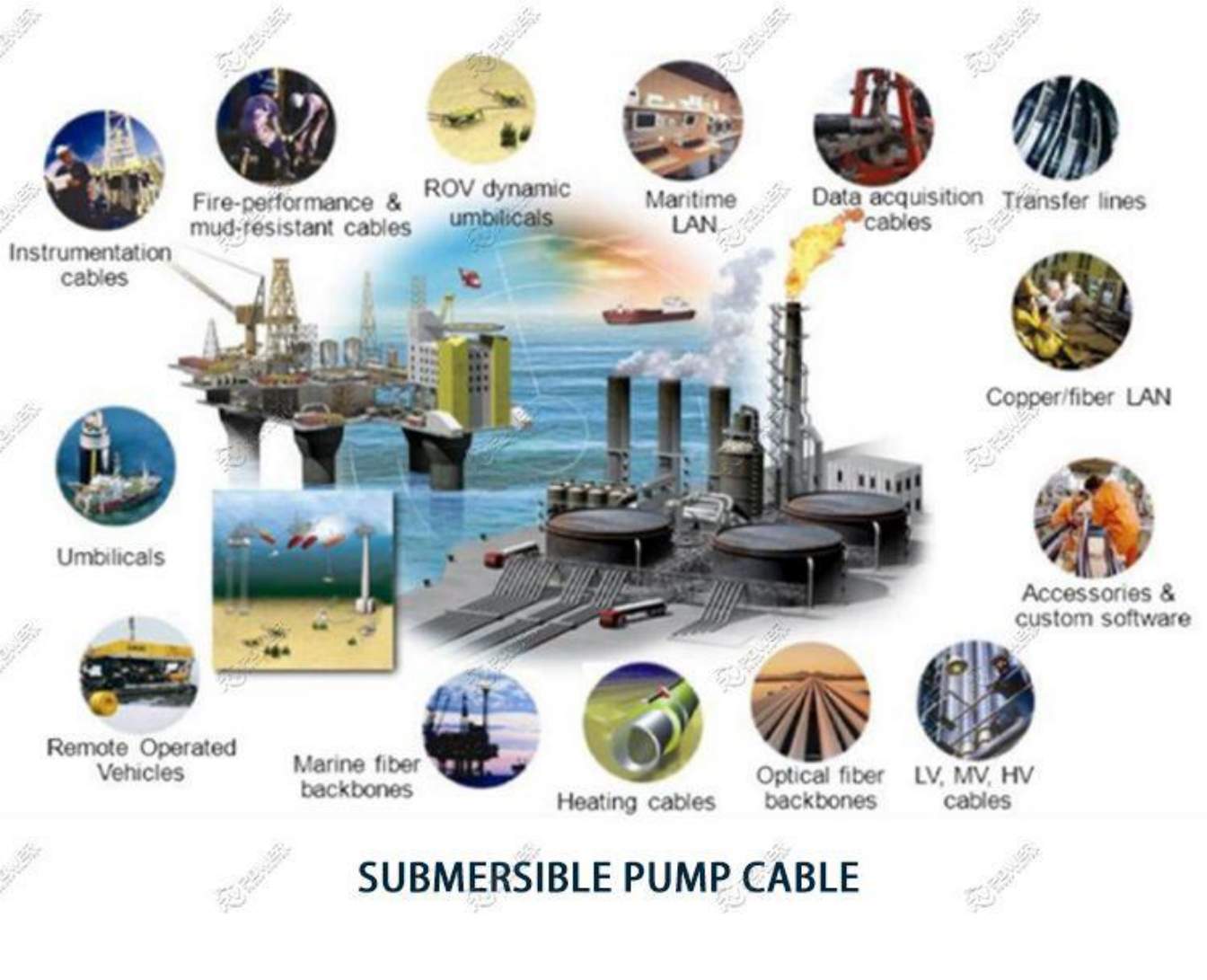
CABLES FOR MARITIME AND UNDERWATER TECHNOLOGIES

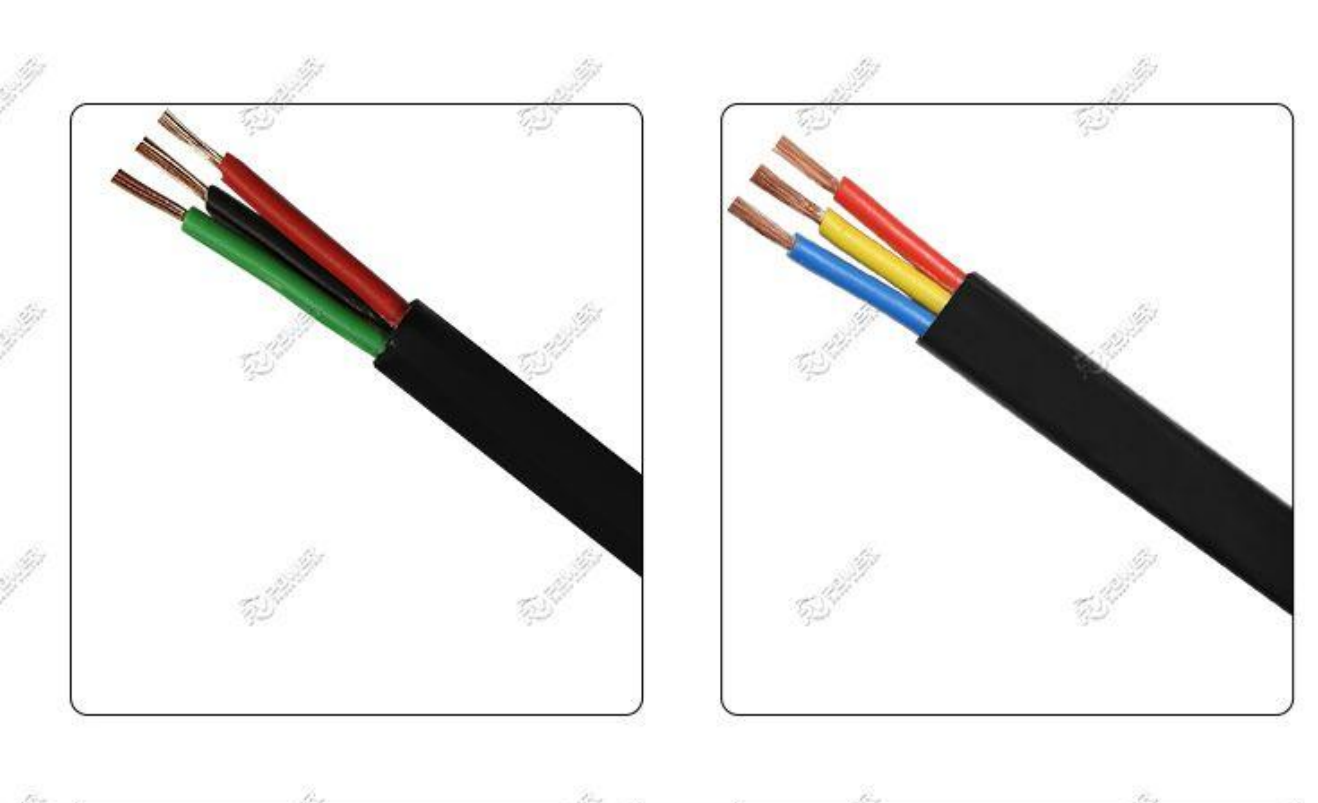
Underwater technology, especially at great depths, is challenging. ROVs, used for underwater inspection, survey and search work,Require cables with high performance and reliability for efficient and accurate control, providing the required strength to support the vehicle.Cables and tethers used for Remotely 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

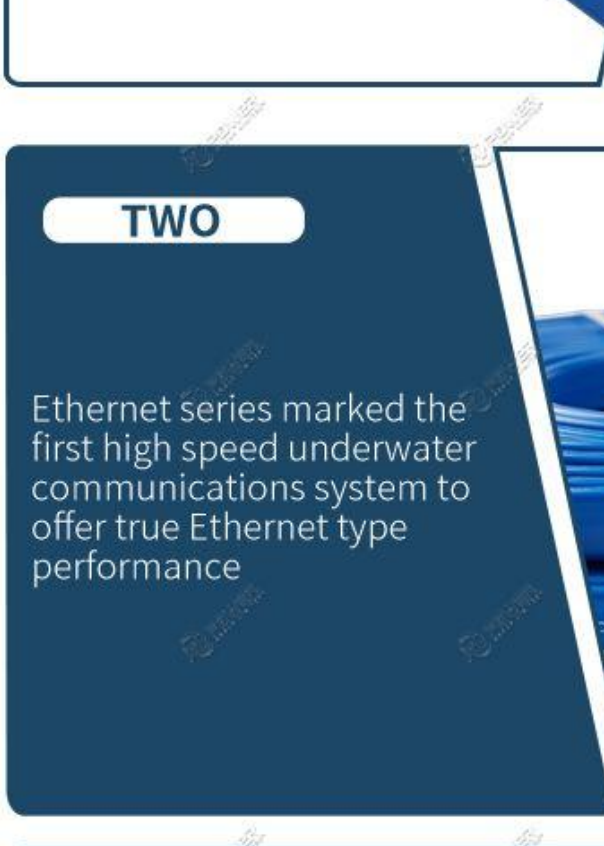




SUBMERSIBLE PUMP CABLE

strong
×
durable

DETAIL DISPLAY

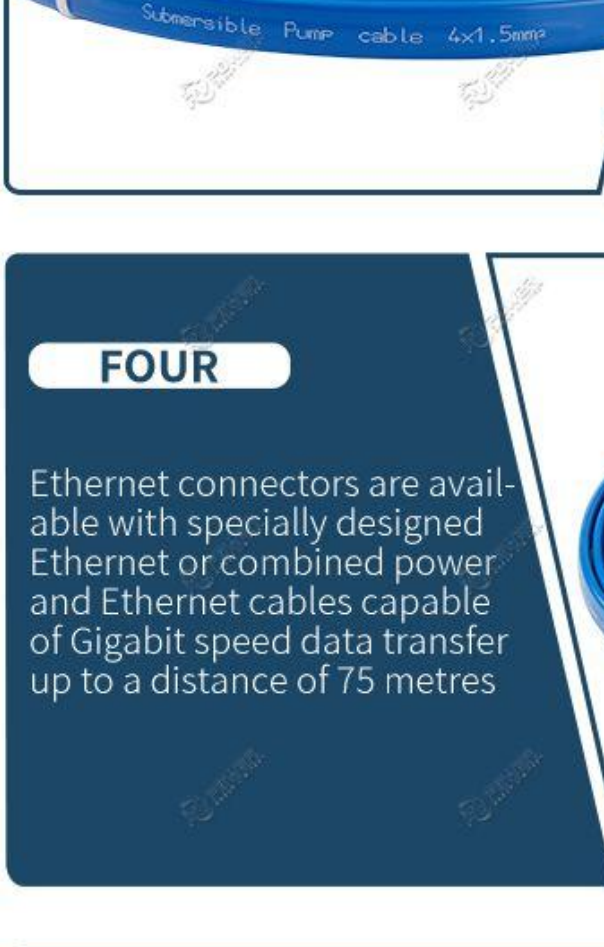


ONE

The series is developed and manufactured to accommodate the demand for gigabit data speed, signal and power for increasingly capable and compact underwater systems

TWO

Ethernet series marked the first high speed underwater communications system to offer true Ethernet type performance



THREE

With power contacts rated for 600 V at 4 A, combined power and Ethernet connectors allow signal and power supply to be unified in one high performance solution.

FOUR

Ethernet connectors are available with specially designed Ethernet or combined power and Ethernet cables capable of Gigabit speed data transfer up to a distance of 75 metres

FIVE

This flexible and water-resistant cable is manufactured from polyurethane (PUR).

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