



# CHUNG KWANG

ELECTRIC WIRE AND CABLE CO., LTD.

Submersible Pump Lines





## CHUNG KWANG ELECTRIC WIRE AND CABLE CO., LTD.

WE ARE 45 YEARS EXPERIENCE PROFESSIONAL MANUFACTURERS.

Chung Kwang Electric Wire & Cable was founded in 1979 with more than 40 years of experience in the wire & cable industry. OEM/ODM Customers design their cables based on industry and appliance requirements.

WE HAVE ESG CERTIFICATION AND MULTI-INTERNATIONAL CERTIFICATES.





## PROFESSIONAL PRODUCTION LINE

Manufacturing Capabilities.

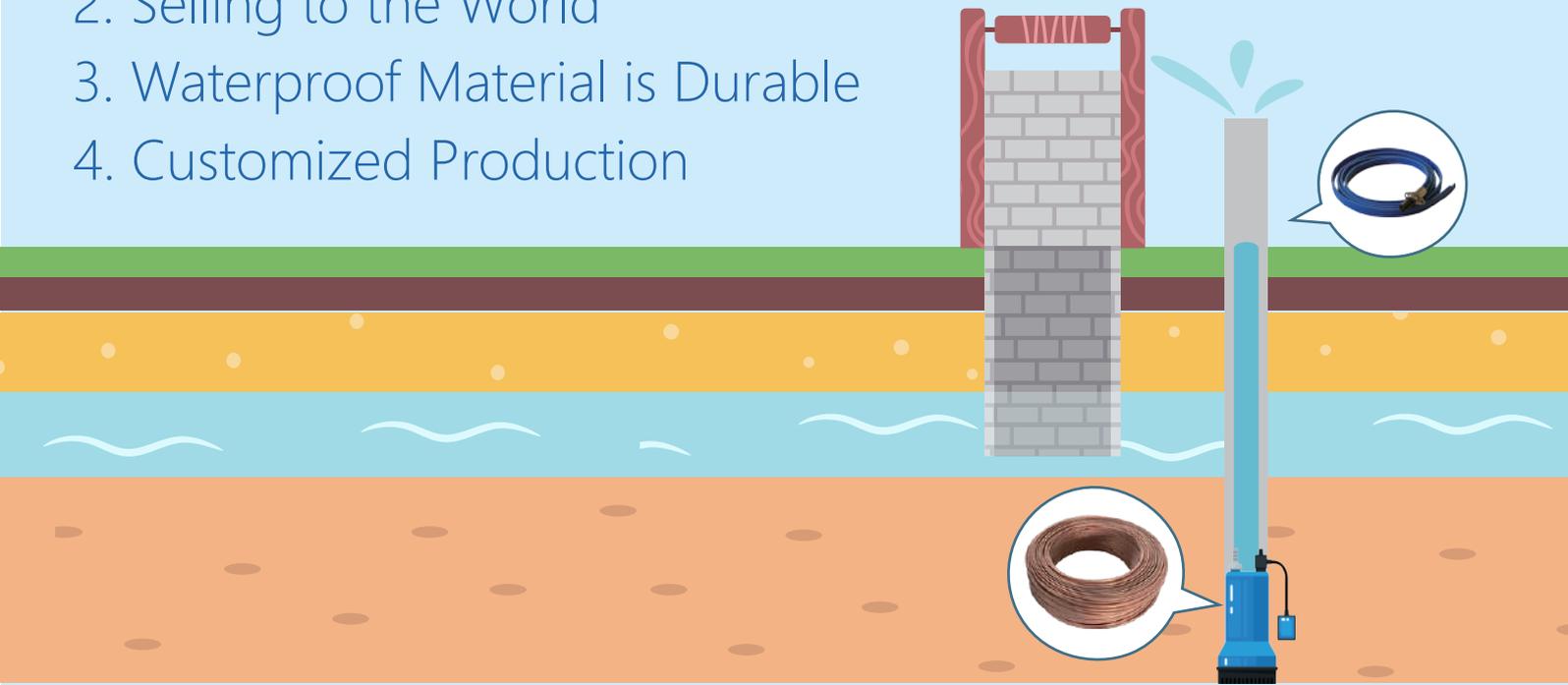
1. AC Charging Connector and Cables for EV
  - (1) One Connector / Two Connectors EV assembly
  - (2) Portable EV Charge Set
  - (3) EVJE, EVJT, EVE, EVT
  - (4) EV Inlet
2. PV Connectors and Cables
  - (1) PV Connectors
  - (2) PV Cables
3. Power Supply Cords
  - (1) Europe Standard
  - (2) USA Standard
  - (3) Japan Standard
4. Underground Low-Energy Circuit Cables  
Low Voltage Landscape Lighting Cable
5. Submersible Pump Lines
  - (1) Submersible Pump Cables
  - (2) Winding Wire for Submersible Pump
6. Industrial Cables  
TC, TC-ER, DG





# Submersible Pump Lines

1. Applicable to Submersible Pumps
2. Selling to the World
3. Waterproof Material is Durable
4. Customized Production



## Advantages

- Made in Taiwan.
- Generally conforming to:UL 44, IEC 60227, BS 6500, ISI 694.
- Excellent resistance to water, moisture, abrasion, grease and oil.
- Excellent resistance to acids, chemicals and ozone.
- CHUNG KWANG Cables are exported to overseas more than 20 countries, and are widely praised and trusted by customers.



## Submersible Pump Cables

### Construction

Conductor : Flexible bare copper conductor strand

Insulation : XLPE

Sheath/Jacket : PVC or TPE

Core Color : 3 core : Red, Yellow, Black ; 4 core : Red, Yellow, Black, Green

### Approval and Technical specification

Approvals : CE

Certificate No. : IEC 60227 、 60364-5-52 、 BS 7671

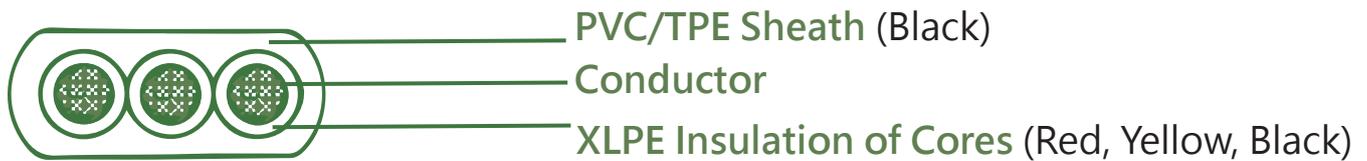
Operating Temperature : -40 °C ~90°C

Temperature Rating : 60 °C, 75°C, 90°C

Voltage Rating : 600 volts

Conductor Size : 14 AWG ~ 2 AWG

### PVC 3 Cord Flat Submersible Pump Cables (Without Ground)



Size(AWG/NO. of conductors)	Nos and Dia. of wire (Nos.X mm)	Core Dia.(mm)	Nominal Sheath Thickness (mm.)	Cable Overall Dimension(mm)
14/3	41 X 0.254	3.60	1.15	13.30 X 6.20
12/3	65 X 0.254	4.30	1.15	15.60 X 7.00
10/3	105 X 0.254	5.10	1.15	17.70 X 7.40
8/3	168 X 0.254	6.30	1.40	22.30 X 9.30
6/3	226 X 0.254	7.60	1.40	26.30 X 10.80
4/3	420 X 0.254	9.90	2.00	32.30 X 13.10
2/3	665 X 0.254	11.10	2.00	35.90 X 14.30

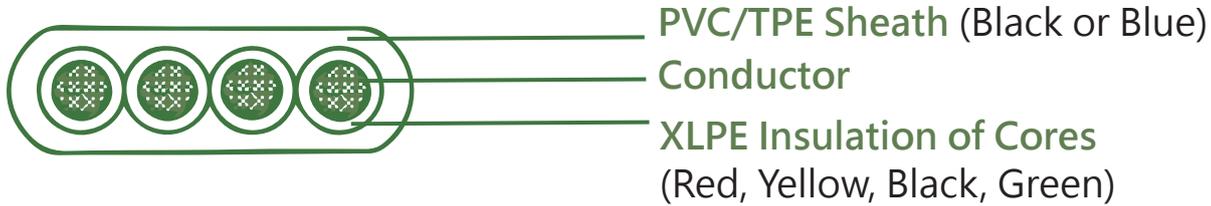
### Note

The number of wires of conductor and wire diameter are nominal, they should satisfy the requirements of conductor resistance of IEC 60228 / DIN VDE 0295 / IS 8130 / BS 6360.



## Submersible Pump Cables

### PVC 4 Cord Flat Submersible Pump Cables (Without Ground)



Size(AWG/NO. of conductors)	Nos and Dia. of wire (Nos.X mm)	Ground Conductor Size(AWG)	Core Dia. (mm)	Nominal (mm)	Cable Overall Dimension(mm)
14/4	41 X 0.254	14	3.85	1.15	18.00 X 6.50
12/4	65 X 0.254	12	4.50	1.15	21.00 X 7.60
10/4	105 X 0.254	10	5.30	1.15	24.30 X 7.90
8/4	168 X 0.254	10	6.50	1.40	29.70 X 9.90
6/4	226 X 0.254	8	8.00	2.00	36.00 X 11.80
4/4	420 X 0.254	8	10.10	2.00	45.10 X 14.70
2/4	665 X 0.254	6	11.30	2.20	50.10 X 16.20

### Note

The number of wires of conductor and wire diameter are nominal, they should satisfy the requirements of conductor resistance of IEC 60228 / DIN VDE 0295 / IS 8130 / BS 6360.

### Applications

- For continuous use in deep well to supply power to submersible equipments like motor for the depth upto 100 mtrs.
- Cable is in accordance with UL specification of 90 °C type RHW-2 cable.
- Submersible pump cables can be used in different kind of applications, including sewage treatment plant, seawater handing, groundwater pumping, fire fighting (since it is flame retardant cable), borehole drilling, water well and deep well drilling, offshore drilling rigs, artificial lifts, mine dewatering, irrigation systems, and water supply systems.



## Winding Wire for Submersible Pump

### Construction

Conductor : Copper

Insulation : PE

Covering ( if apply ) : Nylon

Copper Conductor Spec. : Dia.: 0.3 mm-2.3 mm

Conductor Type : Solid

### Approval and Technical specification

Approvals : Use PE-NY compound to comply with EU RoHS requirements

Rated temperature : 75 °C

PH value : 6.5-8.5

Voltage Rating : 450/ 750 V

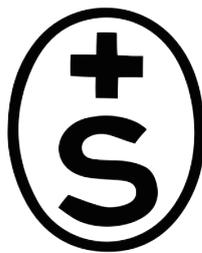
Water temperature : not more than 10kgf/cm

Core No.	Conductor Construction (No.X mm)	Approximate Overall Diameter(mm)NO Nylon	Minimum Insulation Resistance (MΩ-km)	Maximum Conductor Resistance(Ω/km(20°C))
1	1/0.5	1.0	1000	91.6
1	1/0.6	1.2	1000	65.4
1	1/0.7	1.25	1000	47.6
1	1/0.8	1.4	1000	36.2
1	1/0.9	1.5	1000	28.4
1	1/1.0	1.6	1000	23.4
1	1/1.1	1.75	1000	19.2
1	1/1.2	1.85	1000	16.1
1	1/1.3	1.9	1000	13.6
1	1/1.4	2.0	1000	11.7
1	1/1.5	2.2	1000	10.2
1	1/1.6	2.3	1000	8.9

### Note

The number of wires of conductor, cable diameter and conductor resistances are nominal.

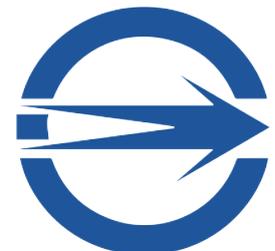
# Certificates



SAA



  
**RoHS**  
compliant



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## Winding Wire for Submersible Pump

### Specification

Core No.	Conductor Construction (No.X mm)	Approximate Overall Diameter(mm)NO Nylon	Minimum Insulation Resistance (M $\Omega$ -km)	Maximum Conductor Resistance( $\Omega$ /km(20°C))
1	1/1.7	2.4	1000	7.9
1	1/1.8	2.55	1000	7.0
1	1/1.9	2.65	1000	6.3
1	1/2.0	2.8	1000	5.7
1	1/2.1	2.9	1000	5.1
1	1/2.2	3.0	1000	4.7
1	1/2.3	3.2	1000	4.3
1	1/2.4	3.4	1000	3.97
1	1/2.5	3.5	1000	3.66
1	1/2.6	3.6	1000	3.38
1	1/2.7	3.8	1000	3.14
1	1/2.8	4.0	1000	2.92

### Note

The number of wires of conductor, cable diameter and conductor resistances are nominal.

### Advantages

- These special copper submersible winding wires helps in operating under water for a longer period of time.
- Waterproof Material is durable, strong toughness, containing non-polluting antioxidant, higher IR value, most suitable for low voltage conditions.
- Can withstand any sudden surge current and voltage and many more.
- High mechanical strength to prevent damage during slot insertion.

### Applications

- Winding wire of coil for Submersible.
- Widely used in domestic submersible water pumps and irrigation pumps.
- The outstanding characteristic of PE wire is oil-resistant and water-resistant.