

BAHRA
CABLES



SUBMERSIBLE PUMP CABLES

GENERAL INTRODUCTION

Bahra Cables Company was established in 2008 to serve Saudi & GCC Markets. It is based in Bahra industrial city located 25km from Jeddah. Bahra Cables Factory occupies over 300,000 square meters of prime manufacturing space together with associated design offices, laboratories and storage area. It specializes in Manufacturing and Distributing Electric Cables.

Bahra Cables Company is committed to the production of the best product quality and service, utilizing cutting edge European Technology in its manufacturing. The core technologies in production processes, material applications and logistic procedures were provided by German experts with key functions being managed by German engineers.

The organization has a lean vertical management structure which is designed to integrate with a highly developed IT-based structure. This partnership allows the rapid flow of information through the management chain and facilitates timely response in the best traditions of 'hands on' management. Bahra Cables Company has the flexibility to provide a versatile product range to serve the construction, electric utilities, distribution, industrial, oil & gas and petrochemical sectors. The cables produced comply with both American standards (CSA , ANSI and ICEA) and European standards (IEC, BS, NF and VDE specifications.)

Bahra Cables Company's Quality Management System conforms to the ISO 9001: 2008 International Management Quality System Standard with scope of Design, Manufacturing and Sales of Electrical Wires, Power Cables and Overhead Transmission Lines up to 400kV with Aluminum/Copper Conductors. BCC is certified by American Systems Registrar (ASR), ANAB Accredited, in addition to ISO 14001 and OHSAS 18001.



AREA

Bahra Cables Company has a total land area of about 300,000sqm at disposal. The built-area, including offices and plant, of start up phase is more than 62,000sqm. The factory extension under construction is more than 80,000sqm already. The total available stock yard for storage is more than 80,000sqm

DEEP-WELL SUBMERSIBLE WATER 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.

FEATURES

- Tough & flexible cable with excellent moisture, abrasion & 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.
- Complied with ROHS PVC for drinking water pump.

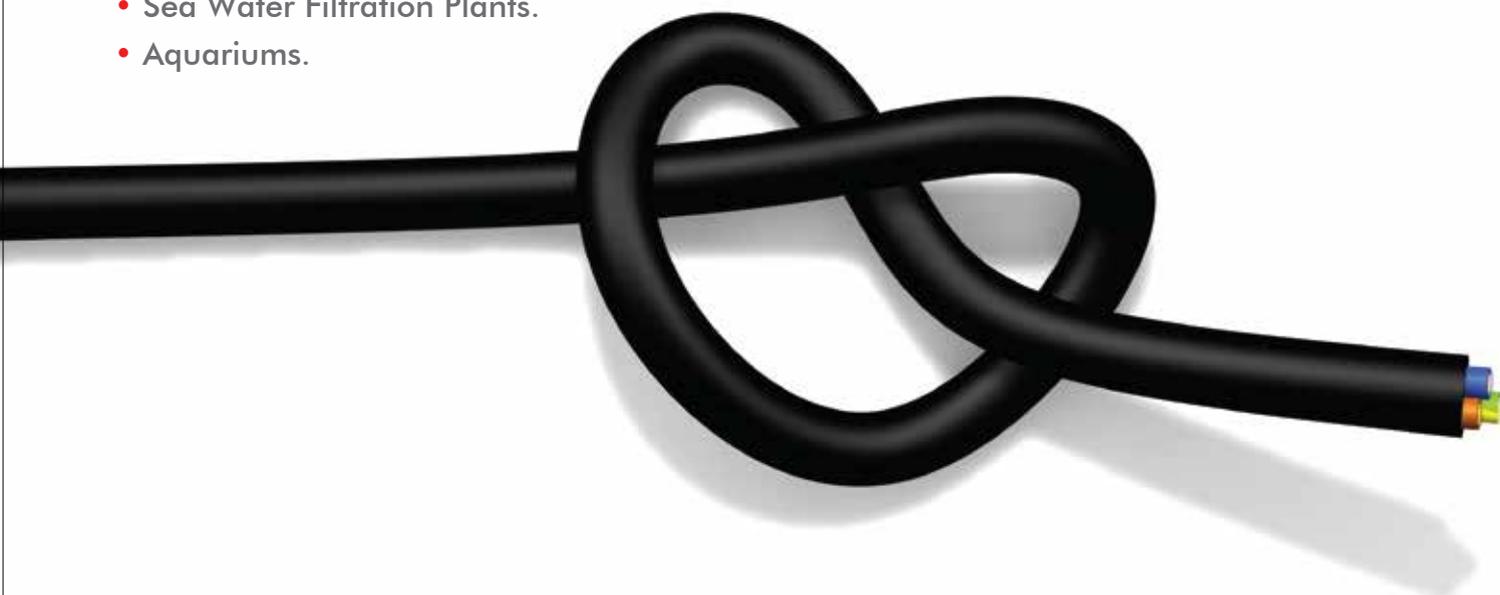
TYPES

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.



CONSTRUCTION

- Conductor

High purity electrolytic grade bright annealed flexible bunched copper conductor according to ASTM B3 class K or IEC 60228.

- Insulation

TPE flexible compound , specially developed compound with 105°C temperature rated , and brittleness temperature -45°C, flame retardant, complying to type THHW -UL 83, 90°C dry or 75°C wet.

Complied with ROHS. (Environmental friendly product).

- Sheath

TPE flexible compound, specially developed, 105°C rated temperature. Flame retardant, high heat resistant, low temperature flexibility and sun light resistant outer sheath.

Complied with ROHS.

STANDARDS

UL 83, IEC 60502-1

WORKING VOLTAGE UO/U

300/500 V or 600 / 1000 V

TEMPERATURE RANGE

-45°C to 105° C

COLOR CODE:

| | 3 Cores | 4 Cores |
|-----------------|---------------------------|----------------------------------|
| Color Code | Brown, Blue, Green/Yellow | Black, Brown, Blue, Green/Yellow |
| Sheathing Color | Black | Black |



TPE INSULATED AND TPE SHEATHED COPPER CONDUCTOR, UN ARMORED, 600/1000 V

THREE CORES

| Product Code | Conductor Size (mm ²) | Insulation Thickness (mm) | Outer Sheath Thickness (mm) | Overall diameter Approx. (mm) | Max. DC Resistant)Ohm/Km) | Standard Length (m±2%) |
|--------------|-----------------------------------|---------------------------|-----------------------------|-------------------------------|----------------------------|------------------------|
| 11510285 | 2.5 | 0.76 | 0.38 | 8 | 7.98 | 1000 |
| 11510286 | 4.0 | 0.76 | 0.38 | 9 | 4.95 | 1000 |
| 11510287 | 6.0 | 0.76 | 0.38 | 11 | 3.30 | 1000 |
| 11510288 | 10 | 1.14 | 0.76 | 15 | 1.91 | 1000 |
| 11510289 | 16 | 1.52 | 0.76 | 18 | 1.21 | 1000 |
| 11510290 | 25 | 1.52 | 0.76 | 22 | 0.78 | 1000 |
| 11510291 | 35 | 1.52 | 0.76 | 25 | 0.554 | 1000 |
| 11510292 | 50 | 1.52 | 1.14 | 28 | 0.386 | 1000 |
| 11510293 | 70 | 1.52 | 1.14 | 34 | 0.272 | 1000 |



FOUR CORES

| Product Code | Conductor Size (mm ²) | Insulation Thickness (mm) | Outer Sheath Thickness (mm) | Overall diameter Approx. (mm) | Max. DC Resistant)Ohm/Km) | Standard Length (m±2%) |
|--------------|-----------------------------------|---------------------------|-----------------------------|-------------------------------|----------------------------|------------------------|
| 11510294 | 2.5 | 0.76 | 0.38 | 9 | 7.98 | 1000 |
| 11510295 | 4.0 | 0.76 | 0.38 | 10 | 4.95 | 1000 |
| 11510296 | 6.0 | 0.76 | 0.38 | 12 | 3.30 | 1000 |
| 11510297 | 10 | 1.14 | 0.76 | 17 | 1.91 | 1000 |
| 11510298 | 16 | 1.52 | 0.76 | 22 | 1.21 | 1000 |
| 11510299 | 25 | 1.52 | 0.76 | 24 | 0.78 | 1000 |
| 11510300 | 35 | 1.52 | 0.76 | 28 | 0.554 | 1000 |
| 11510301 | 50 | 1.52 | 1.14 | 32 | 0.386 | 1000 |
| 11510302 | 70 | 1.52 | 1.14 | 37 | 0.272 | 1000 |



Note: The tables represent thickness' of insulation and sheath to UL 83, metric sizes of conductor; AWG sizes are available upon special request.



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