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# AQUA CABLE® DRINKING WATER CABLE



KTW W270



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## DRINKING WATER CABLE

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submersible and atoxic cables have been specifically designed for permanent immersion in drinking water

They're specifically tested with respect to the absence of microbial growth, of the emission of toxic substances and heavy metals, as well as for the verification of smell, flavor and aspect

### Standards:

EN 50363

RoHS 2011/65/UE

BS6920

DVGW Technical Standard W 270

KTW Guideline

### APPLICATIONS

- Submersible pumps for drinking water
- Processing plants systems of the food and drinks industry
- Depuration systems of drinking water aqueducts and fountains
- Control and operation systems of fishponds and aquariums



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| ELEMENT              | MATERIAL                                            | CODE        | STANDARD                     |
|----------------------|-----------------------------------------------------|-------------|------------------------------|
| Inner conductor      | Bare Copper                                         | Cu          | EN 60228 CL. 5               |
| Insulation           | Polyvinyl Chloride                                  | Special PVC |                              |
| Cores identification |                                                     |             | HD 308 S2<br>(CEI UNEL 0722) |
| Assembly             | The cores are stranded in several concentric layers |             |                              |
| Sheath               | Crosslinked Special Compound<br>BLUE RAL 5015       |             |                              |

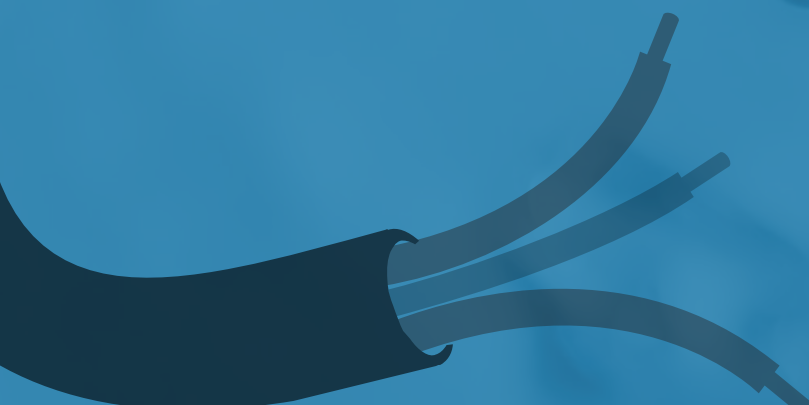
| DESCRIPTION                                  | VALUE     | MEASURE UNIT       |
|----------------------------------------------|-----------|--------------------|
| Operating Voltage                            | 450 / 750 | V                  |
| Test Voltage conductor / conductor           | 2500      | Vac x 15 min       |
| Insulation resistance                        | min. 20   | MΩ x km @ 20 °C    |
| Max Temperature on conductor                 | + 90      | °C                 |
| Operating Temperature (Fixed application)    | -30 ÷ 60  | °C                 |
| Operating Temperature (Flexible application) | -5 ÷ 60   | °C                 |
| Minimum bending radius                       | 5 x       | Outer ø            |
| Max mechanical stress                        | 1.5       | kg/mm <sup>2</sup> |
| Maximum depth in water                       | 300       | m                  |

All data mentioned in this catalogue may be subject to continuous revision and improvement at any time

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## DRINKING WATER CABLE

| CROSS SECTION   | NOMINAL DIAMETER (±10%) | INDICATIVE CABLE MASS |
|-----------------|-------------------------|-----------------------|
| mm <sup>2</sup> | mm                      | Kg/km                 |
| 1x1,5           | 6,3                     | 12                    |
| 1x2,5           | 6,7                     | 20                    |
| 1x4             | 7,7                     | 32                    |
| 1x6             | 8,4                     | 50                    |
| 1x10            | 10,1                    | 87                    |
| 1x16            | 11,2                    | 133                   |
| 1x25            | 13,3                    | 202                   |
| 1x35            | 14,7                    | 292                   |
| 1x50            | 17,2                    | 414                   |
| 1x70            | 19,5                    | 777                   |
| 1x95            | 21,7                    | 1024                  |
| 1x120           | 24,5                    | 1268                  |
| 1x150           | 26,5                    | 1590                  |
| 1x185           | 28,8                    | 1945                  |
| 1x240           | 32,0                    | 2484                  |
| 2x1             | 8,4                     | 16                    |
| 2x1,5           | 9,4                     | 24                    |
| 2x2,5           | 10,8                    | 41                    |
| 2x4             | 12,7                    | 65                    |
| 2x6             | 14,1                    | 100                   |
| 2x10            | 18,0                    | 172                   |
| 2x16            | 20,4                    | 267                   |
| 2x25            | 25,0                    | 407                   |

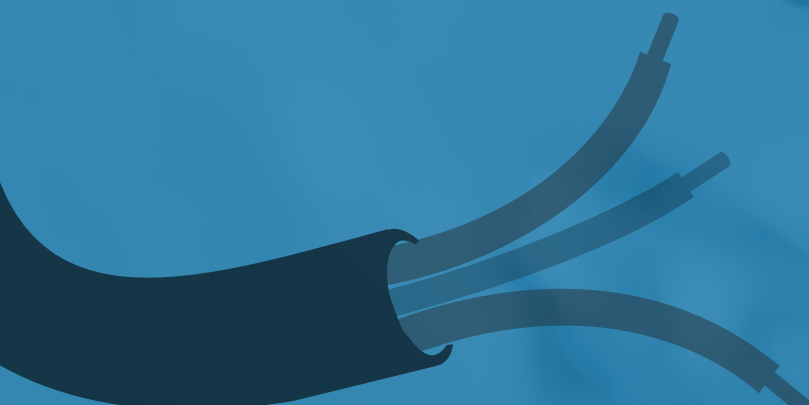


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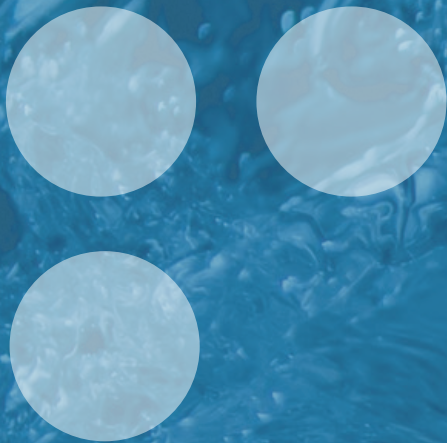
## DRINKING WATER CABLE

| CROSS SECTION   | NOMINAL DIAMETER (±10%) | INDICATIVE CABLE MASS |
|-----------------|-------------------------|-----------------------|
| mm <sup>2</sup> | mm                      | Kg/km                 |
| 3G1             | 9,0                     | 24                    |
| 3G1,5           | 10,0                    | 36                    |
| 3G2,5           | 11,8                    | 61                    |
| 3G4             | 13,7                    | 98                    |
| 3G6             | 15,2                    | 150                   |
| 3G10            | 19,7                    | 258                   |
| 3G16            | 22,8                    | 401                   |
| 3G25            | 27,5                    | 611                   |
| 3G35            | 30,7                    | 883                   |
| 3G50            | 35,2                    | 1249                  |
| 4G1             | 10,0                    | 33                    |
| 4G1,5           | 11,2                    | 48                    |
| 4G2,5           | 12,8                    | 82                    |
| 4G4             | 15,1                    | 131                   |
| 4G6             | 16,9                    | 200                   |
| 4G10            | 22,0                    | 344                   |
| 4G16            | 24,7                    | 535                   |
| 4G25            | 30,3                    | 816                   |
| 4G35            | 33,5                    | 1178                  |

These cables are also available in configuration without yellow-green







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