

Flat Drinking Water Cable 600 metres - 4mm² to 185mm²



Description

This flat drinking water cable which is often called a submersible pump cable, is a durable, waterproof electrical cable designed to power pumps which are permanently submerged in water, especially for drinking water systems. The cable is constructed with class 5 flexible copper conductors, EPR insulation and a special XLPE outer sheath. The cable features a flat profile for easy installation in narrow casings. The cable is resistant to water, chemicals, and abrasion.

It is rated AD8 for water resistance and designed for permanent submersible use in deep wells, boreholes, and industrial clean water installations. The cable is suitable for installation at depths up to 600 meters. Drinking water cable has WRAS approval (Water Regulations Advisory Scheme) and meets standards like ACS, KTW, ensuring it's safe for contact with potable (drinking) water.

It is generally used for standard submersible pumps for drinking water, depuration and chlorination systems, electrical installations in manufacturing, processing and preserving systems of drinks and foodstuff, swimming pool lightings, and other water treatment operation and is specifically designed and approved for contact with drinking water as it does not support microbial growth, or affect the taste, appearance, transparency or colour of water.

Key Features



Submersible
Submersible to 600 metres



Voltage Rating
450/750 Volts



Minimum Bending Radius
4 x flat height



Temperature Limits
Fixed: -40°C to +90°C
Flexed: -25°C to +90°C

Core Colours

- 1 core: Black
- 2 core: Blue Brown
- 3 core: Blue Brown Green Yellow
- 4 core: Brown Black Grey Green Yellow
- 5 core: Blue Brown Black Grey Green Yellow

Standards

- BS EN 50525-2-21
- VDE 0207 PT20
- BS EN 50363-2-1
- BS EN/IEC 60228
- BS EN 50363-1
- BS EN/IEC 60811-100
- BS EN/IEC 60811-403

Construction

- **Conductor:** Class 5 Flexible Tinned Copper
- **Insulation:** Ethylene Propylene Rubber (EPR)
- **Outer Sheath:** Cross Linked polyethylene (XLPE)
- **Sheath Colour:** Blue

QA Lab

Cleveland Cable Test & Training Lab

Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.



CPR

Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.



Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.



ecovadis

Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

ecovadis

Flat Drinking Water Cable 600 metres - 4mm² to 185mm² - Dimensions

| Reference | Maximum Tensile Load (N) | Conductor Size (mm ²) | No Of Cores | Minimum Bending Radius | Overall Diameter(Lower) | Overall Diameter(Upper) | Weight(Kg/Km) |
|-------------------|--------------------------|-----------------------------------|-------------|------------------------|-------------------------|-------------------------|---------------|
| DRINK600FLAT4X4 | 240 | 4 | 4 | 36 | 8.00 X 23.00 | 9.00 X 24.00 | 240 |
| DRINK600FLAT3X6 | 270 | 6 | 3 | 34 | 7.50 X 17.50 | 8.50 X 18.50 | 300 |
| DRINK600FLAT4X6 | 360 | 6 | 4 | 36 | 8.40 X 24.40 | 9.50 X 25.60 | 440 |
| DRINK600FLAT3X10 | 450 | 10 | 3 | 40 | 9.90 X 22.90 | 10.90 X 23.90 | 495 |
| DRINK600FLAT4X10 | 600 | 10 | 4 | 40 | 10.00 X 29.50 | 11.00 X 30.50 | 640 |
| DRINK600FLAT3X16 | 720 | 16 | 3 | 48 | 12.00 X 28.00 | 13.00 X 29.00 | 740 |
| DRINK600FLAT4X16 | 960 | 16 | 4 | 48 | 12.00 X 34.50 | 13.00 X 35.50 | 940 |
| DRINK600FLAT3X25 | 1125 | 25 | 3 | 56 | 14.00 X 33.00 | 15.00 X 34.00 | 1070 |
| DRINK600FLAT4X25 | 1500 | 25 | 4 | 63 | 15.70 X 42.00 | 17.20 X 43.50 | 1500 |
| DRINK600FLAT3X35 | 1575 | 35 | 3 | 64 | 16.00 X 37.00 | 17.50 X 38.70 | 1430 |
| DRINK600FLAT4X35 | 2100 | 35 | 4 | 75 | 18.60 X 48.60 | 19.50 X 49.90 | 1990 |
| DRINK600FLAT3X50 | 2250 | 50 | 3 | 74 | 18.40 X 44.00 | 20.00 X 45.90 | 2000 |
| DRINK600FLAT4X50 | 3000 | 50 | 4 | 78 | 19.40 X 56.70 | 20.20 X 57.70 | 2650 |
| DRINK600FLAT3X70 | 3150 | 70 | 3 | 82 | 20.30 X 50.60 | 21.90 X 52.60 | 2680 |
| DRINK600FLAT4X70 | 4200 | 70 | 4 | 96 | 24.00 X 65.30 | 24.90 X 66.80 | 3720 |
| DRINK600FLAT3X95 | 4275 | 95 | 3 | 92 | 23.00 X 57.00 | 24.00 X 58.00 | 3370 |
| DRINK600FLAT4X95 | 5700 | 95 | 4 | 97 | 24.20 X 73.80 | 26.40 X 74.30 | 4680 |
| DRINK600FLAT3X120 | 5400 | 120 | 3 | 101 | 25.10 X 62.10 | 25.90 X 63.00 | 4160 |
| DRINK600FLAT4X120 | 7200 | 120 | 4 | 102 | 25.20 X 73.00 | 25.60 X 75.00 | 5260 |
| DRINK600FLAT3X150 | 6750 | 150 | 3 | 336 | 26.80 X 67.20 | 27.60 X 68.00 | 5090 |
| DRINK600FLAT3X185 | 8325 | 185 | 3 | 115 | 28.60 X 72.60 | 29.40 X 73.40 | 6110 |

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