#### **DATA SHEET** 1310010

valid from: 2024-10-18

# ÖLFLEX® AQUA 510 P



### Application

ÖLFLEX® AQUA 510 P cables are water-resistant power cables with an insulation of PP and an outer sheath Polyurethane for flexible use and fixed installation under increased mechanical load conditions. The outer sheath is particularly notch and tear resistant and also microbe resistant. They are also suitable for use in dry, damp or wet areas. They are suitable for outdoor use if the indicated temperature range is observed. They are suitable for constant use in fresh or saltwater as well as ammonia water to a depth of 10 m and at a maximum water temperature of 40°C acc. to EN 50565-2. They are suitable for occasional, non-automated movements. The maximum tensile load is 15 N/mm<sup>2</sup> of conductor cross-section during installation and operation. Compulsory guidance is not permitted.

They are increased resistant to oils and at room temperature largely resistant to acids and alkalis. The outer sheath withstands high mechanical stresses, in particular abrasion and dragging. It is also cut proof and resists microbes and hydrolysis as well as mussels adhesion. All materials used are halogen-free.

Application range: Water mills, aerators and feeders for aquacultures, outdoors and submerged in water.

#### Design

Design based on standard

EN 50525-2-21 EN 50525-2-51

Conductor fine wire strands of tinned copper acc. to IEC 60228 resp. EN 60228, Class 5

Insulation modified PP-compound

Core identification code coloured acc. VDE 0293-308 resp. HD 308 S2

with GN/YE ground conductor acc. to EN 50334

polyurethane compound TMPU acc. to EN 50363-10-2 Outer sheath

colour: black, similar RAL 9005

## Electrical properties at 20 °C

Nominal voltage U₀/U: 450/750 V Test voltage core/core: 3500 V AC

#### Mechanical and thermal properties

Minimum bending radius occasional flexing: 10 x outer diameter

fixed installation: 4 x outer diameter

occasional flexing: -40 °C up to +90 °C max. conductor temperature Temperature range

fixed installation: -50 °C up to +90 °C max. conductor temperature

Flammability not flame retardant

Halogen free acc. to IEC 60754-1 and EN 60754-1

acc. to IEC 60754-3 and EN 60754-3

Weather and UV resistance acc. to EN 50618

acc. to EN 50620

acc. to EN ISO 4892-2-2013, method A (change of colour allowed)

Oil resistance acc. to EN 50363-10-2 MUD resistance acc. to IEC 60092-360

Annex C and D

Water-resistance acc. to EN 50525-2-21

salt water resistance acc. to UL 1309

ammonia water resistance acc. to internal test: 21 days storage in 10 % ammonia solution

Tests acc. to IEC 60811 resp. EN 60811, EN 50395, EN 50396

General requirements These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)

**Environmental information** These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).