0021880

DATA SHEET

valid from: 18.12.2024

ÖLFLEX® ROBUST 210



Application

ÖLFLEX® ROBUST 210 cables are control cables for flexible use and fixed installation for a robust mechanical use. 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. At room temperature, they are increased resistant to the effects of acids, alkalis and oils, as well as greases and plant-, animal-, mineral- or synthetic-based waxes. They are suitable for constant use in fresh 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/mm² of conductor cross-section during installation and operation. Compulsory guidance is not permitted.

All materials used are halogen-free.

Application range

ÖLFLEX® ROBUST 210 cables are used as flexible control cable in machine tool building, in medical technology, in laundries, in car washing equipment, in chemical industry, in composting plants, in sewage works and in submersible pumps. They are for use in the food and beverage industry, especially for production and processing equipment of milk and meat products.

Design

Design based on EN 50525-2-51

Conductor fine wire strands of bare copper, acc. to IEC 60228 resp. EN IEC 60228, class 5

Insulation modified PP-compound

Core identification code acc. to VDE 0293, with or without GN/YE ground conductor

black cores with white numbers acc. to EN 50334

Outer sheath special TPE-compound

colour: black, similar RAL 9005

Electrical properties at 20 °C

Nominal voltage U_0 / U : 300 / 500 VTest voltage Core/Core: 4000 V AC

Mechanical and thermal properties

Minimum bending radius occasional flexing: 10 x outer diameter

fixed installation: 4 x outer diameter

Temperature range occasional flexing: -40 °C up to +80 °C max. conductor temperature

fixed installation: -50 °C up to +80 °C max. conductor temperature

UV resistance acc. to EN 50618

acc. to EN 50620

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

Ozone resistance acc. to EN 50396, method B
Oil resistance TM5 acc. to EN 50363-4-1
Water-resistance acc. to EN 50525-2-21

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).