0021880	DATA SHEET	LAPP
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 V
Test 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).