ÖLFLEX® ROBUST 215 C

DB 0022700
valid from: 13.12.2017

Application

ÖLFLEX® ROBUST 215 C cables are screened 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 according to EN 50565-2. The screening braid protects against interference from electrical fields.
They are suitable for occasional, non-automated movements. The maximum tensile load is 15 N/mm^2 of conductor cross-section during installation and operation. Compulsory guidance is not permitted. All materials used are halogen-free.
Application range
ÖLFLEX® ROBUST 215 C cables are used as flexible control cable in machine tool building, in medical technology, in laundries, in car washing equipment, in composting plants, in sewage, in submersible pumps and in EMC-sensitive environments (electromagnetic company). 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 50525-2-51resp. VDE 0285-525-2-51
Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, Class 5
Core insulation	modified PP-compound
Core identification	acc. to VDE 0293, with or without GN/YE ground conductor black cores with white numbers acc. to DIN EN 50334 resp. VDE 0293-334
Wrapping	insulated foil of plastic
Screen	braid of tinned copper, coverage = 85 % (nominal value)
Outer sheath	special TPE–compound colour: black, similar RAL 9005

Electrical properties

Nominal voltage	U_0 / U	300 / 500 V
Test voltage	core / core	4000 V AC
	Core /screen	2000 V AC

Mechanical and thermal properties

Min. bending radius	occasional flexing:	20 x outer diameter
	fixed installation:	6 x outer diameter
Temperature range	occasional flexing:	-40 °C up to +80 °C max. conductor temp.
	fixed installation:	-50 °C up to +80 °C max. conductor temp.
UV-resistance	acc. to EN 50618 resp. VDE 0283-618 acc. to EN 50620 resp. VDE 0285-620 acc. to EN ISO 4892-2, method A (change of colour allowed)	
Oil resistance	TM5 acc. to EN 50363-4-1 resp. VDE 0207-363-4-1	
Ozone resistance	acc. to EN 50396 resp. VDE 0473-396, method B	
Water resistance	acc. to EN 50525-2-21 resp. VDE 0285-525-2-21	
Tests	acc. to IEC 60811 resp. VDE 0473, VDE 0472, EN 50395, EN 50396	
EU-Directives	This cable is conform to the EU-Directives 2014/35/EU (Low Voltage Directive).	

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