

ÖLFLEX® ROBUST 215 C**DB 0022700**

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Application

ÖLFLEX® ROBUST 215 C cables are screened control cables for flexible use and fixed installation for a robust mechanical use. They are for use in dry, damp and wet rooms. Under following to the indicate temperature range is an use outside possible. At room temperature they are increased resistant against acids, caustics solutions and certain oils, greases, waxes of vegetable, animal, mineral and/or synthetic basis. Suitable for freely moved, not permanently recurrent movement without forced guidance and tensile stress. The screen is a protection against electrical interference. All materials used for these cable 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 and in sewage 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 50525-2-51 resp. VDE 0285-525-2-51 / HD 21.13 S1 resp. VDE 0281-13
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 AV

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.
Oil resistance	TM5 acc. to EN 50363-4-1 resp. VDE 0207-363-4-1	
UV-resistance	acc. to EN ISO 4892-2-2006, method A (change of colour allowed), acc. to VDE 0276-605 / HD 605 S2	
Ozone resistance	acc. to EN 50396 resp. VDE 0473-396, method B	
Tests	acc. to IEC 60811 resp. VDE 0473, VDE 0472, EN 50395, EN 50396	
EC-Directives	This cable is conform to the EC-Directives 2006/95/EC (Low Voltage Directive) and 2011/65/EG (RoHS, Restriction of the use of certain hazardous substances).	