

ÖLFLEX® ROBUST FD C

DB 0026701

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Application

ÖLFLEX® ROBUST FD C are high flexible power and control cables for flexible use and fixed installation for normal mechanical load conditions. They are designed 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.

ÖLFLEX® ROBUST FD C are especially for continuously moving machine parts. Use of these cable in moving cables carriers or on motor drum guidance or under a tensile strain of more than 15 N/mm² conductor cross section is not allowed. The used materials are halogen free.

The screen is a protection against electrical interface.

Application range:

machine tool building, medical technology, laundries, car washing equipment, chemical industry, composting plants, sewage works, particularly in wet areas of machine tools and transfer lines, food and beverage industry, especially for production and protection and processing equipment of milk and meat productions

Design

Design	based on EN 50525-2-51 resp. VDE 0285-525-2-51
Conductor	tinned, superfine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, Class 6
Core insulation	TPE-compound P4/11
Core identification	acc. to VDE 0293-1, with or without GN/YE ground conductor black cores with white numbers acc. to DIN EN 50334 resp. VDE 0293-334
Inner sheath	TPE-compound P4/11, colour: black, similar RAL 9005
Screen	braid of tinned copper, coverage = 80 % (nominal value)
Outer sheath	TPE-compound P4/11, colour: black, similar RAL 9005

Electrical properties

Nominal voltage	U ₀ /U 300 / 500 V
Test voltage	4000 V AC

Mechanical and thermal properties

Min. bending radius	occasional flexing:	7,5 x cable diameter at temperatures < 70° C 10 x cable diameter at temperatures ≤ 105° C
	fixed installation:	4 x cable diameter
Number of bending/unbedding cycles	10 mio. cycles	
Travel distance	100 m	
Temperature range	occasional flexing:	-40 °C up to +105 °C max. conductor temp.
	fixed installation:	-50 °C up to +105 °C max. conductor temp.
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	
UV-resistance	acc. to EN ISO 4892-2-2006, method A (change of colour allowed)	
Tests	acc. to IEC 60811, EN 50395, EN 50396	
EC-Directives	This cable is conform to the EC-Directives 2006/95/EC (Low Voltage Directive) and 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).	