

## ÖLFLEX® FD 891 CY

DB 1027003

valid from: 2014-02-21

### Application

ÖLFLEX-FD® 891 CY cables are high flexible cables for power chains for the European, Northern American and Canadian market for flexible use and fixed installation for light and medium mechanical use. They are for use in dry, damp and wet rooms. Under following to the indicate temperature range is an use outside possible. Continuous, busy movements, usage of these cables in moving cable carriers, respectively on motor drum guidance or under a strain of more than 15 N/mm<sup>2</sup> is not allowed. ÖLFLEX-FD® 891 CY cables are increased oil resistant and at room temperature generally resistant against acids and caustics solutions. The screen is a protection against electrical interference.

USE according to UL: PVC sheathed cables for external interconnection or internal wiring of electronic equipment

USE according to CSA: cables for internal or external interconnection with or without mechanical use

Application range: in power chains or moving machine parts, plant engineering, machine tools

### Design

Design	acc. to UL AWM Style 10012, UL AWM Style 21098, CSA AWM IIA/B and based on EN 50525-2-51 resp. VDE 0285-525-2-51 / HD 21.13 S1+A1 resp. VDE 0281-13 DIN 57250 resp. VDE 0250
Approvals	UL AWM Style 21098 or UL AWM Style 2587 (File No. E63634) CSA AWM IA/B IIA/B (File No. LL 53776)
Conductor	fine wire strands of bare copper acc. to IEC 60228 resp. VDE 0295, class 6
Core insulation	PVC compound (UL/CSA 90°C rating)
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	PVC compound (UL/CSA 90°C rating) colour: black, similar RAL 9005
Screen	braid of tinned copper, coverage = 85 % (nominal value)
Outer sheath	PVC compound (UL/CSA 90°C rating) with increased requests to Lapp specification colour: black, similar RAL 9005

### Electrical properties

Nominal voltage	IEC U <sub>0</sub> / U: 300 / 500 V UL/CSA: 600 V
Test voltage	4000 V AC

### Mechanical and thermal properties

Min. bending radius	occasional flexing: 7,5 x outer diameter fixed installation: 4 x outer diameter
Temperature range	occasional flexing: -5 °C up to +90 °C (UL/CSA) max. conductor temp. fixed installation: -40 °C up to +90 °C (UL/CSA) max. conductor temp.
Number of bending/unbending cycles	5 Mio. cycles
Travel distance	10 m

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Oil resistance	acc. to IEC 60811 resp. VDE 0473-811 (90°C, 7d) 80°C rating acc. to UL 758; CSA C22.2 No. 210-05
Flammability	flame retardant acc. to IEC 60332-1-2 UL: vertical flame test VW-1, CSA: FT1
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).