U.I. Lapp GmbH

DATA SHEET



ÖLFLEX® FD 891

DB 1026003

valid from: 2014-02-21

Application

ÖLFLEX-FD[®] 891 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/mm2 is not allowed. ÖLFLEX-FD® 891 cables are increased oil resistant and at room temperature generally resistant against acids and caustics solutions.

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

UL AWM Style 21098 or UL AWM Style 2587 (File No. E63634) **Approvals**

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

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 U₀ / 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

Number of bending/unbening

cycles 5 mio. cycles

Travel distance 10 m

-5 °C up to +90 °C (UL/CSA) max. conductor temp. Temperature range occasional flexing:

fixed installation: -40 °C up to +90 °C (UL/CSA) max. conductor temp.

Oil resistance acc. to IEC 60811resp. 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).

Originator: KASC / PDC Document: DB1026003EN Page 1 of 1 approved: HAPF / PDC