


1028752	<b>DATA SHEET</b>	
Valid from: 19.07.2018	<b>ÖLFLEX® FD 891 P</b>	

## Application

ÖLFLEX® FD 891 P cables are high-flexible, oil-resistant cables for power chains with an outer sheath of Polyurethane for the European, North American and Canadian market.

They are designed for flexible use as well as for fixed installation subject to medium mechanical load conditions.

They are among others designed for use in dry, damp and wet areas.

They are suitable for outdoor use if the indicated temperature range is observed.

ÖLFLEX® FD 891 P cables are increased resistant to oils and at room temperature largely resistant to acids and alkalis.

The outer sheath withstands high mechanical stresses, in particular abrasion and dragging. It is also cut proof and resists microbes and hydrolysis.

They are suitable for linear, automated movements. The maximum tensile load is 15 N/mm<sup>2</sup> of conductor cross-section during installation and operation. Compulsory guidance is not permitted.

Application range: power chains or moving machine parts, machine tools and transfer lines, suitable for use in measuring, control and regulating circuits, plant engineering

USE according to UL: PUR sheathed cables for external interconnection of electronic equipment

USE according to cRU: Cables for internal and external interconnection with or without mechanical use

## Design

Design	acc. to UL AWM Style 20234, CSA C22.2 No. 210-15 and based on EN 50525-2-21 resp. VDE 0285-525-2-21
Approvals	UL AWM 758, Style 20234 (File No. E63634) cRUus AWM I A/B, II A/B (File No. E63634)
Conductor	extra fine wire strands of bare copper acc. to IEC 60228 resp. VDE 0295, class 6
Core insulation	PVC compound (UL/CSA 80°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	PUR compound (UL/CSA 80°C rating) resp. TMPU acc. to DIN EN 50363-10-2 resp. VDE 0207-363-10-2 colour: black, similar RAL 9005


## Electrical properties

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

## Mechanical and thermal properties

Min. bending radius	flexing: up from 7.5 x cable diameter fixed installation: 4 x cable diameter
Bending cycles and power chain operation parameters	See Selection Table A2-1 in the appendix of our online catalogue For use in power chains: Please comply with assembly guideline Appendix T3
Temperature range	flexing (VDE): -5 °C up to +70 °C max. conductor temperature flexing (UL/CSA): -5 °C up to +80 °C max. conductor temperature fixed installation (VDE): -40 °C up to +80 °C max. conductor temperature fixed installation (UL/CSA): up to +80 °C max. conductor temperature

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Flammability	flame retardant acc. to IEC 60332-1-2 resp. VDE VDE 0482-332-1-2 UL: vertical flame test VW-1 CSA: FT1
Oil resistance	acc. to EN 50363-10-2 resp. VDE 0207-363-10-2
UV-resistance	acc. to EN 50525-1 (VDE 0285-525-1) cable with black sheath are suitable for permanent outdoor use. UV-resistant acc. to EN ISO 4892-2-2013, method A (change of colour allowed)
Tests	acc. to IEC 60811 resp. VDE 0473-811, EN 50395, EN 50396 UL 1581 und CSA C22.2
EU Directives	These cables are conform to the EU-Directives 2014/35/EU (Low Voltage Directive)

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