

ÖLFLEX® FD 891 P

DB 1028752

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Application

ÖLFLEX-FD® 891 P are highly flexible PUR sheathed cable for the European, Northern American and Canadian Markets. They are especially designed for usage in power chains, handling systems and similar continuously flex applications of industrial machines and machine tool industry. They are for use in dry, damp and wet locations. With attention of the temperature range they can be used outdoors. ÖLFLEX-FD® 891 P is microbe-proof and hydrolysis resistant. The PUR jacket is increased oil resistant, highly resistant against abrasion and at room temperature generally resistant against some acids and caustics solutions.

Usage on motor drum guidance or under strain of more than 15N/mm² is not allowed.

USE according to UL: Cables for external interconnection of electronic equipment

USE according to CSA: Cables for 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 20234, CSA C22.2 No. 210-11 and based on EN 50525-2-21 resp. VDE 0285-525-2-21
Approvals	UL AWM 758, Style 20234 (File No. E63634) cRU AWM A/B II (File No. E63634)
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
Outer sheath	PUR compound (UL/CSA 80°C rating) resp. TPU acc. to DIN EN 50363-10-2 resp. VDE 0207-363-10-2 colour: black, similar RAL 9005

Electrical properties

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

Mechanical and thermal properties

Min. bending radius	flexible application:	7,5 x outer diameter
	fixed installation:	4 x outer diameter
Number of bending/unbending cycles		5 Mio. cycles
Travel distance		10 m
Temperature range	flexing (VDE):	-5 °C up to +70 °C max. conductor temp.
	Flexing(UL/CSA):	-5 °C up to +80 °C max. conductor temp.
	fixed installation (VDE):	-40 °C up to +70 °C max. conductor temp.
	fixed installation (UL/CSA):	-40 °C up to +80 °C max. conductor temp.
Oil resistance		acc. to EN 50363-10-2 resp. VDE 0207-363-10-2
Flammability		flame retardant acc. to IEC 60332-1 UL: vertical flame test VW-1; CSA: FT 1
Tests		acc. to IEC 60811 resp. VDE 0473-811, EN 50395, EN 50396 UL 1581 und CSA C22.2
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).