LAPP GROUP	**DATA SHEET**	1029752
	ÖLFLEX-FD® 891 CP	valid from : 05.05.2006

Application

ÖLFLEX-FD® 891 CP 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® 891CP 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.
The copper braid is a protection against electrical interference.
USE according to UL: Cables for external interconnection of electronic equipment.
USE according to CSA: I A/B and II A/B. Cables for external interconnection with or without mechanical use

Technical data

Conductor	extra fine wire strand of bare copper as to IEC 60228 (VDE 0295) class 6 In each case the smaller AWG size is allocated to the metric cross section. The DC-resistance corresponds to UL, CSA and IEC/VDE
Design	as to UL 758 (AWM) Style 20234 and CSA C 22.2 No. 210.2, in accordance to VDE 0281 part 13
Core Insulation	90 °C PVC compound, UL Class 43 and CSA 90° C
Core Identification	as per EN 50334 (VDE 0293), black cores with white numbers with or without green/yellow ground conductor
Inner jacket	80 °C PVC compound as per UL 758 and CSA
Shield	Braid of tinned copper wires, optical covering 80 % (nominal)
Jacket	80 °C PUR compound as per UL 758 and CSA, resp. TMPU as per HD22.10 (VDE 0281-1) in halogen free, flame retardant version.
Nominal voltage	UL/CSA: U: 600 V IEC/VDE: U_0/U: 300/500 V
Test voltage	4000 V AC
Temp. range	for flexible use: -5 up to +80°C max. conductor temperature for static use: -40 up to +80°C max. conductor temperature
Min.bending radius	flexible use: 7,5 x cable diameter fixed installed: 4 x cable diameter
Flame retardant	vertical flame test as to UL 1581 § 1061, CSA FT1, IEC 60 332.1, (EN 50265-2-1-, VDE 0482 part 265-2-1)
Oil resistance	as per IEC/ST9 (VDE 0472 part 803 test method B), UL 1581 class 43, 80 °C, CSA C 22.2 No. 210.2
Approvals	c UL us AWM (File No. E 63634) Approval marking is printed on the cable jacket.
EC directive	This cable confirms to ECD 73/23/EEC (low voltage directive).