



DATA SHEET	0013100
ÖLFLEX® 491 CP	valid from : 01.02.2003


Application

ÖLFLEX® 491CP cables are shielded control- and power cables especially for use at the Northern American and Canadian market. These AWM cables (Appliance Wiring Material) are used for installation within machine-tools and other industrial machines. They are for use in dry, damp and wet rooms. With attention of the temperature range they can be used outdoors.

The PUR jacket is highly resistant against mechanical stress in particular against abrasion and scrubbing. This PUR material is microbe-proof and hydrolysis resistant. Continuous busy movements, usage on motor drum guidance or under a strain of more than 15 N/mm² conductor cross section is not allowed.

The copper braid is a protection against electrical interferences.

Technical data

Conductor	bare copper, fine wire strand as per IEC 60228 (VDE 0295) class 5 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)
Inner jacket	80 °C PUR compound as per UL 758 and CSA
Nominal voltage	UL/CSA: U: 600 V IEC/VDE: U ₀ /U: 300/500 V
Test voltage	3000 V AC
Temp. range	for flex. use: -5 up to +80°C max. conductor temperature for static use: -40 up to +80°C max. conductor temperature
Min. bending radius	flex. use 15 x cable diameter fixed installed: 6 x cable diameter
Flame retardance	vertical flame test as to UL 1581 § 1061, CSA FT1, IEC 60332.1, (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	 UL <small>us</small> AWM (File No. E 63634) Approval marking is printed on the cable jacket.
USE according to UL	PVC-sheathed cables for external interconnection or internal wiring of electronic equipment.
USE according to CSA	I A/B and II A/B. Cables for internal or external interconnection with or without mechanical abuse.
EC directive	This cable confirms to ECD 73/23/EEC (low voltage directive).

elaborated by: TE-K	Document: DB0013100_2EN	page 1 of 1
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