

0036320	<b>DATA SHEET</b>	
Valid from: 23.08.2018	<b>ÖLFLEX® SERVO FD 781 CY</b>	

## Application

ÖLFLEX® SERVO FD 781 CY are screened, low capacitance, high flexible servo power cables, especially designed for usage in power chains, handling systems and similar continuously flex applications of industrial machines and machine tool industry. The insulation of these cables is made from modified PP, the jacket from PVC with improved oil resistance. They are also suitable for use in dry, damp or wet areas. If using outdoors, observe the indicated temperature range and use with UV protection. They are largely resistant to acids and alkalis at room temperature. 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. ÖLFLEX® SERVO FD 781 CY are conforms to DESINA standard. The screening braid protects against interference from electrical fields.

Application range:

low capacitance design allows a longer cable connection between the frequency converter and the motor

## Design

Design	based on EN 50525-2-11 resp. VDE 0285-525-2-11
Conductor	extra fine wire strands of bare copper acc. to IEC 60228 resp. VDE 0295, Class 6
Core insulation	modified PP, based on EN 50290-2-25 resp. VDE 0819-105
Core identification	acc. to VDE 0293-1, with or without GN/YE ground conductor black cores with white numbers acc. to EN 50334 resp. VDE 0293-334
Screen	braid of tinned copper wires, coverage 85 % (nominal value)
Outer sheath	PVC compound TM5 acc. to EN 50363-4-1 resp. VDE 0207-363-4-1 with increased requirements acc. to LAPP specification colour: orange, similar 2003

## Electrical properties

Nominal voltage	U <sub>0</sub> / U:	600 / 1000 V
Test voltage	core / core:	4000 V AC
	core / screen:	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:	-5 °C up to +70 °C max. conductor temp.
	fixed installation:	-40 °C up to +80 °C max. conductor temp.
Flammability	flame retardant acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2	
Oil resistance	TM5 acc. to EN 50363-4-1 resp. VDE 0207-363-4-1	
Tests	acc. to IEC 60811, EN 50395, EN 50396	
EU Directives	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)	

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