

0026400	DATA SHEET	
Valid from: 19.07.2018	ÖLFLEX® CLASSIC FD 810 CP	

Application

ÖLFLEX® CLASSIC FD 810 CP cables are high flexible, oil resistant control cables with an outer sheath of Polyurethane. They are designed for use in power chains or moving machine parts, as well as for fixed installation subject to medium mechanical load conditions. They are also suitable for use in dry, damp or wet areas. They are suitable for outdoor use if the indicated temperature range is observed.

ÖLFLEX® CLASSIC FD 810 CP 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/mm² of conductor cross-section during installation and operation. Compulsory guidance is not permitted. The screening braid protects against interference from electrical fields.

Application range:

particularly in wet areas of machine tools and transfer lines, mechanical engineering, suitable for use in measuring, control and regulating circuits, power circuits for electrical equipment used in automation engineering

Design

Design	based on DIN EN 50525-2-51 resp. VDE 0285-525-2-51 DIN EN 50525-2-21 resp. VDE 0285-525-2-21
Conductor	extra fine wire strands of bare copper acc. to IEC 60228 resp. VDE 0295, Class 6
Core insulation	LAPP special PVC compound P8/1 TI2 acc. to EN 50363-3 resp. VDE 0207-363-3 with increased requirements acc. to LAPP specification
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
Inner sheath	PVC compound TM2 acc. to EN 50363-4-1 resp. VDE 0207-363-4-1 with increased requirements acc. to LAPP specification colour: silver grey, similar RAL 7001
Screen	braid of tinned copper, coverage rate 80% - 85 %
Outer sheath	Polyurethane compound TMPU acc. to EN 50363-10-2 resp. VDE 0207-363-10-2 colour: silvergrey, similar RAL 7001

Electrical properties at 20°C

Nominal voltage	U ₀ / U:	300 / 500 V
Test voltage	core / core:	4000 V
	core / screen:	4000 V

Mechanical and thermal properties

Min. bending radius	flexible application:	up from 7,5 x outer diameter
	fixed installation:	4 x outer 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	flexible application:	-5 °C up to +70 °C max. conductor temp.
	fixed installation:	-40 °C up to +80 °C max. conductor temp.
Flammability	acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2	

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UV-resistance	acc. to EN ISO 4892-2-2006, method A (change of colour allowed)
Ozone resistance	acc. to EN 50396 resp. VDE 0473-396, method B
Oil resistance	acc. to EN 50363-10-2 resp. VDE 0207-363-10-2
MUD resistance	acc. to IEC 67892-4, Annex D
Tests	acc. to IEC 60811, EN 50395, EN 50396
EU Directives	These cables are conform to the EU-Directives 2014/35/EU (Low Voltage Directive)

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