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0026300	DATA SHEET	LAPP
valid from: 03.03.2022	ÖLFLEX® CLASSIC FD 810 P	

Application

ÖLFLEX® CLASSIC FD 810 P cables are oil resistant high-flexible control cables with an outer sheath of Polyurethane for flexible use and fixed installation subject to medium mechanical stress. 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.
ÖLFLEX® CLASSIC FD 810 P 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.

Application range:
in power chains or moving machine parts; 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 EN 50525-2-51 EN 50525-2-21
Conductor	extra fine wire strands of bare copper acc. to IEC 60228 resp. EN 60228, class 6
Insulation	LAPP special PVC compound P8/1 TI2 acc. to EN 50363-3 with increased requirements acc. to LAPP specification
Core identification code	acc. to VDE 0293-1, with or without GN / YE ground conductor, black cores with white numbers acc. to EN 50334
Outer sheath	Polyurethane compound TMPU acc. to EN 50363-10-2 colour: silver grey, similar RAL 7001

Electrical properties at 20 °C

Nominal voltage	U_0 /U: 300 / 500 V AC
Test voltage	core/core: 4000 V AC

Mechanical and thermal properties

Minimum bending radius	flexing: up from 7,5 x outer diameter fixed installation: 4 x outer diameter
Temperature range	flexing: -5 °C up to +70 °C max. conductor temperature fixed installation: -40 °C up to +80 °C max. conductor temperature
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
Flammability	acc. to IEC 60332-1-2 resp. EN 60332-1-2
UV resistance	acc. to EN 50618 acc. to EN 50620 acc. to EN ISO 4892-2-2013, method A (change of colour allowed)
Ozone resistance	acc. to EN 50396, method B
Oil resistance	acc. to EN 50363-10-2
MUD resistance	acc. to EC 60092-360, Annex C+D
Tests	acc. to IEC 60811 resp. EN 60811, EN 50395, EN 50396
General requirements	These cables are conform to the EU-Directives 2014/35/EU (Low Voltage Directive).
Environmental information	These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

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