



## ÖLFLEX® FD CLASSIC 810 P

DB 0026300

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**Application**

ÖLFLEX® FD CLASSIC 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 among others designed for use in dry, damp or wet rooms. Considering the indicated temperature range an outdoor use is possible. ÖLFLEX® FD CLASSIC 810 P cables are increased oil resistant and at room temperature widely resistant to acids and caustic solutions. The outer sheath is resistant against high mechanical stress, particularly to abrasion and scouring, cut resistant, microbe-proof and hydrolysis resistant. They are especially for use in power chains and in permanently moved machine parts. Usage of these cables in moving cable carriers or on motor drum guidance or under a tensile strain of more than 15 N/mm<sup>2</sup> conductor cross-section is not allowed.

Application range:

Machine tools, automation engineering, process measuring and control technology, assembly and handling technique, transfer lines, assembly lines and production lines.

**Design**

Design	based on HD 21.13 S1 +A1 resp. VDE 0281-13 and HD 22.10 S2 resp. VDE 0282-10
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, better than the PVC compound TI2, acc. to HD 21.1 S4 resp. VDE 0281-1
Core identification	acc. to VDE 0293-1, with or without GN/YE ground conductor black cores with white numbers acc. to DIN EN 50334 resp. VDE 0293 part 334
Outer sheath	Polyurethane compound TMPU acc. to EN 50363-10-2 resp. VDE 0207-363-10-2 Colour: Grey, similar RAL 7001

**Electrical properties**

Nominal voltage	U <sub>0</sub> /U: 300/500 V AC
Test voltage	C/C: 4000 V AC

**Mechanical and thermal properties**

Min. bending radius	flexing: 7,5 x cable diameter fixed installation: 4 x cable diameter
Temperature range	flexing: - 5 °C up to +70 °C max. conductor temp. fixed installation: -40 °C up to +80 °C max. conductor temp.
Travel distance	in power chains up to 10 m
Oil resistance	acc. to EN 50363-10-2 resp. VDE 0207-363-10-2
Flammability	flame retardant in acc. with IEC 60332-1-2 resp. VDE 0482-332-1-2
Tests	acc. to IEC 60811 resp. VDE 0473 part 811 and VDE 0472
EC-Directives	This cable is conform to the EC-Directives 2006/95/EC (Low Voltage Directive) and 2002/95/EC (RoHS, Restriction of the use of certain hazardous substances).