


0026100	DATA SHEET	
Valid from: 19.07.2018	ÖLFLEX® CLASSIC FD 810	

Application

ÖLFLEX® CLASSIC FD 810 cables are high flexible, power and control cables with sheath of PVC for flexible use and fixed installation under normal mechanical load conditions. 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, alkalis and certain oils at room temperature. 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 chain or moving machine parts; suitable for use in measuring, control and regulating circuits; power circuits for electrical equipment used in automation engineering; assembly lines, production lines in all kinds of machines; plant engineering

Design

Design	based on EN 50525-2-51 resp. VDE 0285-525-2-51
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 T12 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
Outer 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

Electrical properties at 20°C

Nominal voltage	U ₀ / U: 300/500 V
Test voltage	core / core: 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: 0 °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
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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