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0026200	DATA SHEET	LAPP
valid from: 03.03.2022	ÖLFLEX® CLASSIC FD 810 CY	

Application

ÖLFLEX® CLASSIC FD 810 CY 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.
The screening braid protects against interference from electrical fields.
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
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
Inner sheath	PVC compound TM2 acc. to EN 50363-4-1 with increased requirements acc. to LAPP specification colour: silver grey, similar RAL 7001
Screen	braid of tinned copper, coverage = 85 % (nominal value)
Outer sheath	PVC compound TM2 acc. to EN 50363-4-1 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 AC
Test voltage	core / core: 4000 V core / screen: 4000 V

Mechanical and thermal properties

Minimum bending radius	flexing: up from 7.5 x outer diameter fixed installation: 4 x outer diameter
Temperature range	flexing: 0 °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
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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