

ÖLFLEX® CLASSIC FD 810 CP

DB 0026400

valid from: 2014-02-21

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 intended for use in dry, damp or wet rooms. With consideration to the specified temperature range it is possible to use it outside. ÖLFLEX® FD CLASSIC 810 CP cables are increased oil resistant and at room temperature generally resistant against acids and caustics solution. The outer sheath is resistant against high mechanical use, particularly to abrasion cuts, microbe proof and hydrolysis resistant. They are special for use in power chains, automatic manipulators, in permanently moved machine parts. Usage on motor drum guidance or under a strain of more than 15 N/mm² is not allowed. The screen is a protection against electrical interference.

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 equipments used in automation engineering

Design

Design	based on EN 50525-2-51 resp. VDE 0285-525-2-51 EN 50525-2-21 resp. VDE 0285-525-2-21
Conductor	fine wire strands of bare copper acc. to IEC 60228 that is 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
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 0293-334
Inner sheath	PVC-compound TM2 acc. to EN 50363-4-1 resp. VDE 0207-363-4-1 with increased requests 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: silver grey, similar RAL 7001

Electrical properties

Nominal voltage	U ₀ /U: 300 / 500 V
Test voltage	C / C: 4000 V C / S: 4000 V

Mechanical and thermal properties

Min. bending radius	occasional flexing: 7,5 x outer diameter fixed installation: 4 x outer diameter
Number of bending/unbending cycles	5 mio. cycles
Travel distance	10 m

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Temperature range	occasional flexing: -5 °C up to +70 ° max. conductor temp. fixed installation: -40 °C up to +80 °C max. conductor temp.
Oil resistance	acc. to EN 50363-10-2 resp. VDE 0207-363-10-2
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
Flame retardant	acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2
Tests	acc. to IEC 60811, EN 50395, EN 50396
EC-Directives	This cable is conform to the EC-Directives 2006/95/EC (Low Voltage Directive) and 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).