

## ÖLFLEX® CLASSIC FD 810

DB 0026 100

valid from: 15.06.2016

**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 designed for use in dry, damp or wet rooms. They may only be installed outdoors with UV-protection and considering the temperature range. The cables are generally resistant against acids, caustics solution and specific oils. Usage on motor drum guidance or under a strain of more than  $15 \text{ N/mm}^2$  is not allowed.

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	fine wire strands of bare copper acc. to IEC 60228 that is VDE 0295, class 6
Core insulation	LAPP special PVC compound P8/1 with increased requests to Lapp specification TI2, acc. to EN 50363-3 resp. VDE 0207-363-3
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 requests to LAPP specification colour: silver grey, similar RAL 7001

**Electrical properties**

Nominal voltage	$U_0/U$ : 300/500 V
Test voltage	Core / Core: 4000 V

**Mechanical and thermal properties**

Min. bending radius	flexible application: 7,5 x outer diameter fixed installation: 4 x outer diameter
Number of bending/ unbending cycles	5 mio. cycles
Travel distance	10 m
Temperature range	flexible application: 0 °C up to +70 °max. conductor temp. fixed installation: -40 °C up to +70 °C max. conductor temp.
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	These cables are conform to the EU-Directives 2014/35/EU (Low Voltage Directive) and 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).