U.I. Lapp GmbH

DATA SHEET



ÖLFLEX® PETRO FD 865 CP

DB 0023300 valid from: 2014-05-08

Application

ÖLFLEX® PETRO FD 865 CP cables are oil-resistant control cables with an outer sheath of special polymer compound for high flexible use and fixed installation under medium mechanical load conditions. They are among others designed for use in dry, damp and wet rooms. Considering the indicated temperature range an outdoor use is possible.

ÖLFLEX® PETRO FD 865 CP cables are resistant to oil and drilling fluids according to NEK TS 606:2009 (Oil & MUD) as soon as IEC 61892-4 Annex D and at room temperature widely resistant to acids and caustic solutions. The outer sheath is resistant against high mechanical load, particularly to abrasion and scouring, cut resistant, microbe-proof and hydrolysis resistant. They are especially for use in power chains, also for long travelling distance and high speed, handling tools and in permanently moved machine parts. Usage of cables in moving cable carriers or on motor drum guidance or under a tensile strain of more than 15 N/mm² conductor cross-section is not allowed. The used materials are halogen-free. The screen is a protection against electrical interference.

Application range: Power chains or moving machine parts, on- and offshore applications e.g. offshore drilling platform, drill-ship; machine tools and transfer lines, mechanical engineering, construction machinery, assembly lines, production lines, in all kinds of machines.

Design

Design based on HD 22.10 S2/ VDE 0282-10, EN 50525-2-21/ VDE 0285-525-2-21

and HD 21.13 S1+A1/ VDE 0281-13, EN 50525-2-51/ VDE 0285-525-2-51

Approval DNV Det Norske Veritas (Certificate-No. E-12720)

Conductor extra fine wire strands of bare copper acc. to IEC 60228 resp. VDE 0295, Class 6

Core insulation TPE (Thermoplastic Elastomer)

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

Taping non-woven wrapping

Inner sheath TPE (Thermoplastic Elastomer)

Screen braid of tinned copper wires, coverage = 85% (nominal value)

Outer sheath Special polymer compound

Colour: Black, similar RAL 9005

Electrical properties

Nominal voltage U₀/U: 300/500 V

Test voltage Core/Core and Core/Screen: 3000 V AC

Mechanical and thermal properties

Min. bending radius flexing: 7.5 x cable diameter

fixed installation: 4 x cable diameter

Number of bending/unbending

cycles 10 mio. cycles

Travel distance 100 m

Originator: KASC / PDC
approved: HAPF / PDC

Document: DB0023300EN

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Temperature range flexing: -50 °C up to +80 °C max. conductor temp.

fixed installation: -60 °C up to +90 °C max. conductor temp.

Flammability flame retardant in acc. with IEC 60332-1-2 resp. VDE 0482-332-1-2

Oil resistance acc. to EN 50363-10-2 resp. VDE 0207-363-10-2

MUD resistance acc. to NEK TS 606: 2009 and IEC 61892-4 Annex D

Salt water resistance acc. to UL 1309

Halogen free acc. to VDE 0472-815

UV resistance acc. to EN ISO 4892-2-2006, method A (change of colour allowed)

Tests acc. to IEC 60811 resp. VDE 0473 part 811, VDE 0472, EN 50395

EC Directive These cables are conform to the EC-Directives 2006/95/EC (Low Voltage Directive),

and 2011/65/EC (RoHS, Restriction of the use of certain hazardous substances).

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