

Application

ÖLFLEX® FD 90 CY cables are *DESINA*® compliant screened high-flexible, sheathed cables for the European, North American and Canadian market.

They are designed for flexible use as well as for fixed installation subject to medium 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.

with UV protection. ÖLFLEX® FD 90 CY cables 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 chains or moving machine parts, for internal wiring of electric and electronic equipment in switch cabinets, specially designed for power circuits of servomotors driven by frequency converters, this cable can substitute screened multi-core motor cables where space requirements or minimum bending radii cause problems, test systems in the automotive industry, vehicles and stationary fuel cell systems

USE acc. to UL: PVC sheathed cable for internal wiring or external interconnection of electronic equipment.

Appliances where exposed to oil at a temperature not exceeding 80° C.

USE acc. to CSA: Cables for internal wiring or external interconnection with or without mechanical abuse.

Design

Design according to UL AWM Style 10107

based on VDE 0250

Approvals UL AWM Style 10107 (File No. E63634)

 \leq 120 mm² CSA AWM I A/B, II A/B \geq 150 mm² CUL AWM I A/B, II A/B

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

Class 6

Core insulation PVC compound (UL/CSA 90°C rating)

Core identification BK or GN/YE

Taping non-woven wrapping

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

Outer sheath PVC compound (UL/CSA 90°C rating)

colour: Orange, similar RAL 2003

Electrical properties

Specific insulation resistance

> 20 G Ω x cm

(20°C)

Nominal voltage IEC U_0 / U: 600 / 1000 V

UL/CSA 600 V

Test voltage 4000 V AC

Mechanical and thermal properties

Min. bending radius flexing: up from 7.5 x cable diameter

fixed installation: 3 x cable diameter

Bending cycles and power chain

See Selection Table A2-1 in the appendix of our online catalogue

operation parameters For use in power chains: Please comply with assembly guideline Appendix T3

Creator: LABU/PDC Document: DB0026651EN Page 1 of 2

Released: HAPF/PDC Version: 08

0026651	DATA SHEET	& LADD
Valid from: 12.07.2018	ÖLFLEX [®] FD 90 CY	WLAPP

Temperature range flexing (VDE): -5 °C up to +70 °C max. conductor temp.

flexing (UL/CSA):

-5 °C up to +90 °C max. conductor temp. fixed installation(VDE):

-40 °C up to +80 °C max. conductor temp. fixed installation (UL/CSA):

up to +90 °C max. conductor temp.

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

UL: Vertical flame test VW-1, FT2

CSA: FT1

Oil resistance acc. to EN 50363-4-1 resp. VDE 0207-363-4-1, TM5

UL: 80°C rating acc. to UL 758 CSA: CSA C22.2 No. 210-15

Tests acc. to IEC 60811 resp. VDE 0473-811, VDE 0472, EN 50395, EN 50396

UL 1581 and CSA C22.2

EU Directives These cables are conform to the EU-Directives 2014/35/EU (Low Voltage

Directive)

Creator: LABU/PDC Document: DB0026651EN Page 2 of 2

Released: HAPF/PDC Version: 08