

## ÖLFLEX® TRAY II &amp; TRAY II CY

DB 221803

valid from: 08.03.2013

**Application**

ÖLFLEX® TRAY II as well as TRAY II CY is a multi-conductor, 600 Volt, 90°C, UL Type TC-ER (Exposed Run) and MTW, c(UL) Type CIC/TC, CE-compliant, highly oil resistant and flexible control cable for fixed installation and randomly flexible use under medium mechanical stress. It is UV resistant and approved for direct burial. It can be used indoors and outdoors in wet and dry locations. Use in accordance with UL: PVC sheathed cables for external interconnection or internal wiring of electronic equipment, meets NEC Art. 336, 392, 501. Use in accordance with Table 19 of the Canadian Electrical Code for CIC and TC Type designations.

This cable is suitable for torsion application in wind turbines (WTG). The torsional load is limited to applications as they typically occur in the loop of a wind turbine.

**Technical data**

|                         |   |
|-------------------------|---|
| Conductor               | Fine bare copper wires, flexing service per UL 1063; UL 1581 ASTM B3, metric-/ AWG-sized  |
| Design / Make-up        | Cable is constructed in accordance with the requirements of the Underwriters Laboratories Inc.'s Standard for Electrical Power and Control Tray Cables per UL Standard 1277 and CSA Standard C22.2 No 230 & No 239  |
| Core Insulation         | Specially formulated PVC/Nylon insulation   |
| Identification          | Black cores with white numbers and green/yellow ground conductor in accordance with EN 50334 respectively VDE 0293-334  |
| Screen                  | Aluminium-plated foil and tinned copper braid with 70% coverage (only ÖLFLEX TRAY II CY)  |
| Outer Sheath            | Special PVC compound, oil resistant (OIL RES I & II), black   |
| Rated Voltage           | 1000V UL AWM, WTTC; 600V UL Type TC, MTW, DP 1, c(UL) CIC/TC, CSA AWM; 300V UL PLTC; 150V UL ITC; VDE U <sub>0</sub> /U: 0,6/1kV  |
| Min. bending radius     | Fixed installation: 5 x outer diameter<br>Occasional flexing: 15 x outer diameter (screened version: 20 x )   |
| Temperature Range       | fixed installation: -40°C to + 90°C (AWM: +105°C)<br>occasional flexing: -25°C to + 90°C (AWM: +105°C)  |
| Torsion movement in WTG | TW-0 (5000 cycles at ≥ +5°C)<br>TW-2 (2000 cycles at ≥ -40°C)<br>± 150 °/m at 1 revolution per minute   |
| Flame retardant         | UL1581 section 1160, which exceeds IEC 60332-1 (conform to EN 60332-1); CSA FT4   |
| Approvals               | UL MTW (Machine Tool Wire); UL AWM (Appliance Wire Material), UL Wet Approval 75°C; UL Type TC (Tray Cable) - ER (Exposed Run) or DP-1; UL PLTC (Power Limited Tray Cable); UL ITC (Instrumentation Tray Cable), UL WTTC<br>OIL RES. I and OIL RES. II; UL AWM 2587 & 21098 (Oil)<br>P-07-KA050016-MSHA (shielded only)<br>c(UL) CIC / TC and FT4<br>CSA-AWM I/II A/B FT4 |
| File numbers:           | UL MTW: E155920; UL TC: E171371; UL AWM: E100338; WTTC: E323700   |
| Conformity              | Meets European CE Low Voltage Directive 2006/95/EC<br>Meets European RoHS Directive 2011/65/EU  |