

ÖLFLEX® TRAY II & TRAY II CY
DB 22 1803
valid from: 01.10.2012
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, WTTTC; 600V UL Type TC, MTW, DP 1, c(UL) CIC/TC, CSA AWM; 300V UL PLTC; 150V UL ITC; VDE U ₀ /U: 0,6/1kV
Min. bending radius	Fixed installation: 5 x outer diameter Occasional flexing: 15 x outer diameter (screened version: 20 x)
Temperature Range	fixed installation: -40°C to + 90°C (AWM: +105°C) occasional flexing: -25°C to + 90°C (AWM: +105°C)
Torsion movement in WTG	TW-0 (5000 cycles at ≥ +5°C) TW-2 (2000 cycles at ≥ -40°C) ± 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 WTTTC OIL RES. I and OIL RES. II P-07-KA050016-MSHA (shielded only) c(UL) CIC / TC and FT4 CSA-AWM I/II A/B FT4
File numbers:	UL MTW: E155920; UL TC: E171371; UL AWM: E100338; WTTTC: E323700
Conformity	Meets European CE Low Voltage Directive 2006/95/EC Meets European RoHS Directive 2002/95/EC