

Various applications

PVC sheath, approved



**ÖLFLEX® TRAY II**

LAPP KABEL STUTTGART ÖLFLEX® TRAY II-(B) (UL) TC-ER 16 AWG/5C 90 °C DRY 75 °C WET 600 V SUN RES DIR BUR or MTW E 171371--c(UL) CIC FT4--CSA AWM II A/B 90C 600V FT4 LL74246 CC

**Benefits**

- Wide application range due to multiple approvals
- Cost-saving, easy installation due to omission of closed raceways (suitable for open wiring)

**Application range**

- Industrial machinery; plant engineering
- TC-ER (Tray Cable Exposed Run) approval for open wiring between cable tray and industrial machines/plants acc. to NEC 336.10(7)
- Wind turbines: USA Wind Turbine Tray Cable (WTTTC)
- Class 1, Div. 2 in accordance with NEC "National Electrical Code" Art. 336, 392, 501
- Suitable for outdoor use and direct burial

**Product features**

- Flame-retardant according to CSA FT4 UL Vertical-Tray Flame Test
- Oil-resistant according to UL OIL RES I & II
- Water-resistant, UL Wet Approval 75 °C
- UV-resistant UL SUN RES
- Suitable for torsional applications which are typical for the loop in wind turbine generators (WTG)

**Norm references / Approvals**

- Multi-standard cables have conductor strands with nominal sizes in mm<sup>2</sup> or AWG/kcmil. The master size is mentioned in the table below, while the equivalent size of the other system can be found in the Appendix T 16 of this catalogue. For this related secondary size the cross-section of the conductor mostly works out to be greater than the specified nominal value.
- Approvals: UL MTW (Machine-tool Wire) [E155920]; UL AWM (Appliance Wiring Material-Component) [E100338]; UL Wet Approval 75°C; UL Type TC (Tray Cable) - ER (Exposed Run) [E171371] or DP-1; UL PLTC (Power Limited Tray Cable); UL ITC (Instrumentation Tray Cable); UL WTTTC (FT4) [E323700]; OIL RES. I, OIL RES. II; UL AWM 2587 & 21098 (Oil); P-07-KA050016-MSHA (ÖLFLEX® TRAY II CY); c(UL) CIC / TC and FT4; CSA-AWM I/II A/B FT4

**Product make-up**

- Fine-wire strand made of bare copper wires
- Insulation: PVC+nylon sheath (PA skin)
- Outer sheath made of special PVC compound, black

**Info**

- Torsion resistant for drip loops
- Broad application range (NFPA 70/NEC), NFPA 79 compliance, Outdoor use

**Technical data**

**Classification**  
ETIM 5.0 Class-ID: EC000104  
ETIM 5.0 Class-Description: Control cable

**Core identification code**  
Black with white numbers

**Conductor stranding**  
Fine copper wire strands

**Torsion movement in WTG**  
TW-0 & TW-2, refer to Appendix T0

**Minimum bending radius**  
Static/Occ. moved: 5/15xOD\*

**Nominal voltage**  
UL/CSA: 600 V (TC, MTW, CIC), WTTTC 1000V  
UL/CSA: 1000 V (AWM)  
VDE U<sub>0</sub>/U: 600/1000 V

**Protective conductor**  
G = with GN-YE protective conductor  
X = without protective conductor

**Temperature range**  
-40°C (static) / -25°C (occ. moved) to +90°C (AWM: +105°C)

Article number	Number of cores and mm <sup>2</sup> per conductor	AWG per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
<b>ÖLFLEX® Tray II</b>					
221803	3 G 1.0		7.5	28.8	85
221804	4 G 1.0		8.1	38.4	98
221805	5 G 1.0		8.8	48.0	115
221807	7 G 1.0		9.5	67.0	149
221809	9 G 1.0		10.9	87.0	167
221812	12 G 1.0		12.1	115.0	255
221818	18 G 1.0		14.9	173.0	365
221825	25 G 1.0		16.9	240.0	479
221603	3 G 1.5		8.3	43.0	103
221604	4 G 1.5		8.9	58.0	124
221605	5 G 1.5		9.7	72.0	146
221607	7 G 1.5		10.5	101.0	189
221608	8 G 1.5		11.3	116.0	203
221609	9 G 1.5		12.1	130.0	255
221612	12 G 1.5		14.4	173.0	328
221618	18 G 1.5		16.6	259.0	431
221625	25 G 1.5		18.8	360.0	592
221641	41 G 1.5		25.0	591.0	931
221650	50 G 1.5		26.6	720.0	1132
221403	3 G 2.5		9.2	72.0	130
221404	4 G 2.5		10.0	96.0	159
221405	5 G 2.5		10.8	120.0	191
221407	7 G 2.5		11.8	168.0	252
221409	9 G 2.5		14.5	216.0	335
221412	12 G 2.5		16.2	288.0	459
221418	18 G 2.5		18.7	432.0	654
221425	25 G 2.5		22.5	600.0	874
221204	4 G 4		11.7	153.0	226
221205	5 G 4		12.8	192.0	279
221207	7 G 4		14.8	269.0	384
221004	4 G 6		14.7	231.0	394
221005	5 G 6		16.0	288.0	472
221007	7 G 6		17.4	405.0	661
220804	4 G 10		17.9	384.0	615
220805	5 G 10		19.6	480.0	771
220604	4 G 16		22.8	615.0	864
220605	5 G 16		24.9	768.0	1080
220404	4 G	4	27.8	960.0	1418
220204	4 G	2	32.3	1,344.0	2077

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.  
 Copper price basis: EUR 150/100kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.  
 Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)  
 Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum  
 Please specify the preferred type of packaging (e.g. 1 x 610 m drum or 8 x 76 m coils).  
 Photographs are not to scale and do not represent detailed images of the respective products.  
 \*OD = Outer diameter

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UNITRONIC®  
ETHERLINE®  
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EPIC®  
SKINTOP®  
SILVYN®  
FLEXIMARK®  
ACCESSORIES  
APPENDIX