

ÖLFLEX® TRAY II

ÖLFLEX® Control Cable 0.6/1 kV, UL TC-ER 600V MTW AWM WET OIL/ SUN RES CSA TRAY

ÖLFLEX® TRAY II: UL TC-ER 600V or AWM 1000V, WET 75°C, SUN/ OIL RES I+II, DIR BUR, CSA AWM I/II A/B FT4, PVC power + control cable, 0.6/1 kV, Tray - Exposed Run

Info

Torsion resistant for drip loops

Broad application range (NFPA 70/NEC), NFPA 79 compliance

Outdoor use in USA

LAPP KABEL STUFGART ÖLFLEX® TRAY II (UL) TC-ER 10 AWG/SC 90°C DRY 75°C WET 600 V
SUN RES DIR BUR or MTW E 111221-1000L GFC FTA - CSA AWM I A/B 600V FTA LL14248 1



Suitable for outdoor use



Flame-retardant



Cold-resistant



Mechanical resistance



Oil-resistant



Torsion-resistant



UV-resistant

Benefits

Cost-saving, fast installation omitting protection systems

Many certifications/ use types

Last Update (05.08.2022)

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Product Management www.lappkabel.de

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02_03.16

ÖLFLEX® TRAY II

75 °C WET Rating + Sunlight Resistant Rating: Outdoor use in the USA

Application range

Industrial machinery, plant engineering in the USA

Unprotected 600V operation on cable tray in the USA, incl. 6 ft. Exposed Run laying sections for version with at least 3 conductors

Compliant with Tool machines: (UL) MTW

Outdoor use and Direct Burial in the USA, per UL 1277

USA Wind Turbine Tray Cable (WTTC) do turbin wiatrowych

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 75°C WET rating

UV resistant (SUN RES), Ozone resistant

Suitable for torsional applications which are typical for the loop in wind turbine generators (WTG)

Norm references / Approvals

USA: (UL) TC-ER [E171371], (UL) MTW [E155920], (UL) WTTC [E323700], Submersible Pump (14 - 2 AWG), (UL) PLTC-ER (18 - 12 AWG) [E216027], (UL) ITC-ER (18 - 12 AWG) [E196134], (UL) DP-1 [E233406], UL AWM (18 - 2 AWG) [E100338]

UL OIL RES I/ II, 75°C WET, 90°C DRY, SUN RES, DIR BUR, NEC/NFPA 70, NFPA 79

CAN: c(UL) CIC/ TC 600V FT4 (< 250 kcmil) [E171371], CSA AWM I/II A/B FT1

Product Make-up

Fine-wire strand made of bare copper wires

Insulation: PVC+nylon sheath (PA skin)

Outer jacket: Specially formulated thermoplastic polymer

Color of the outer jacket: Black

Technical Data

Classification ETIM 5:

ETIM 5.0 Class-ID: EC000104

ETIM 5.0 Class-Description: Control cable

Classification ETIM 6:

ETIM 6.0 Class-ID: EC000104

ETIM 6.0 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:

2 AWG (33.62 mm²) & smaller: 4 x OD

1 AWG (42.41 mm²) & larger: 6 x OD

Nominal voltage:

UL/CSA: 600 V (TC, MTW, CIC), WTTC 1000 V

UL/CSA: 1000 V (AWM)

IEC: U₀/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 (TC) or +105°C (AWM)

Note

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Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100 kg. 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

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 and graphics are not to scale and do not represent detailed images of the respective products.

Prices are net prices without VAT and surcharges. Sale to business customers only.

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Article number	Number of cores and mm² per conductor	AWG per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® Tray II					
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	115
221807	7 G 1.0	-	9.5	67	149
221812	12 G 1.0	-	12.1	115	255
221818	18 G 1.0	-	14.9	173	365
221825	25 G 1.0	-	16.9	240	479
221603	3 G 1.5	-	8.3	43	103
221604	4 G 1.5	-	8.9	58	124
221605	5 G 1.5	-	9.7	72	146
221607	7 G 1.5	-	10.5	101	189
221609	9 G 1.5	-	12.1	130	255
221612	12 G 1.5	-	14.4	173	328
221618	18 G 1.5	-	16.6	259	431
221625	25 G 1.5	-	18.8	360	592
221641	41 G 1.5	-	25	591	931
221403	3 G 2.5	-	9.2	72	130
221404	4 G 2.5	-	10	96	159
221405	5 G 2.5	-	10.8	120	224
221407	7 G 2.5	-	11.8	168	252
221412	12 G 2.5	-	16.2	288	459
221418	18 G 2.5	-	18.7	432	654
221425	25 G 2.5	-	22.5	600	874
221204	4 G 4.0	-	11.7	153	226
221205	5 G 4.0	-	12.8	192	279
221004	4 G 6.0	-	14.7	231	394
221005	5 G 6.0	-	16	288	472
221007	7 G 6.0	-	17.4	405	661
220804	4 G 10.0	-	17.9	384	615
220805	5 G 10.0	-	19.6	480.624	771
220604	4 G 16.0	-	22.8	615	864
220605	5 G 16.0	-	24.9	768	1080
220404	4 G	4	27.8	960	1418

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Article number	Number of cores and mm ² per conductor	AWG per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
220204	4 G	2	32.3	1344	2077

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