

ÖLFLEX® CONTROL TM

ÖLFLEX® Control Cable PVC 0.6/1kV UL TC-ER WTTC AWM1000V WET OIL RES I+II CSA AWM

ÖLFLEX® CONTROL TM: UL MTW TC-ER CIC WTTC AWM 600V OIL RES I+II WET, CSA AWM I/II A/B FT4, Power and control cable 0.6/1 kV, PVC, Tray Exposed Run, Wind Turbine

Info

Torsion resistant for drip loops

Wide application range (NFPA 70/NEC)/ compliance with NFPA 79 for industrial machinery (UL) SUN. RES. approval in preparation



Torsion-resistant



Oil-resistant



Mechanical resistance



Flame-retardant



Cold-resistant

Benefits

Many certifications/ use types

Cost-saving, fast installation omitting protection systems

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Application range

Industrial machinery; plant engineering

Compliant with Tool machines: (UL) MTW

Unprotected 600V operation on cable tray in the USA, incl. 6 ft. Exposed Run laying sections

USA Wind Turbine Tray Cable (WTTC)

Product features

Flame-retardant according to CSA FT4

UL Vertical-Tray Flame Test

Oil-resistant according to UL OIL RES I & II

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

Technically resistant to sunlight and ozone

Norm references / Approvals

USA: (UL) TC [E171371], -ER > 2 conductors, (UL) MTW [E155920], (UL) WTTC [E323700], (UL) THHN/THWN (> 1.5 mm²/16 AWG) [E172162], UL AWM Style 20886 [E100338]

From June 2018:

Sunlight Resistant (Sun. Res.), Direct Burial (Dir. Bur.), Submersible Pump Cable (> 1.5 mm²/16 AWG, and < 8 conductors), (UL) PLTC (< 6 mm²/10 AWG) [E216027], (UL) ITC (< 6 mm²/10 AWG) [E196134], (UL) DP-1 [E233406]

UL OIL RES I/ II, 75°C WET, 90°C DRY, NFPA 79 2012 + 2015 Edition

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

Product Make-up

Fine-wire strand made of bare copper wires

Insulation: PVC with nylon sheath (PA skin)

Outer jacket: Specially formulated thermoplastic polymer

Color of the outer jacket: Gray

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-wire, bare copper strand
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), WTTC 1000 V UL AWM: 600 V CSA AWM: 1000 V IEC U0/U: 600/1000 V
Test voltage:	2000 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)

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Note

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 \leq 30 kg or \leq 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.

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

*OD = Outer diameter

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)
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281803	3 G 1	7.4	28.8
281804	4 G 1	8	38.4
281805	5 G 1	8.6	48
281807	7 G 1	9.3	67
281812	12 G 1	12	115
281818	18 G 1	14.7	173
281825	25 G 1	16.7	240
281602	2 X 1.5	7.3	28.8
281603	3 G 1.5	8.1	43
281604	4 G 1.5	8.8	58
281605	5 G 1.5	9.5	72
281607	7 G 1.5	10.3	101
281609	9 G 1.5	11.9	129.6
281612	12 G 1.5	14.1	172.8
281618	18 G 1.5	16.4	259
281625	25 G 1.5	18.6	360
281403	3 G 2.5	8.9	72
281404	4 G 2.5	9.8	96
281405	5 G 2.5	10.7	120
281407	7 G 2.5	11.6	168
281203	3 G 4	10.6	115
281204	4 G 4	11.5	154
281205	5 G 4	12.6	192
281207	7 G 4	14.6	269
281004	4 G 6	14.5	231
281005	5 G 6	15.8	288
280804	4 G 10	17.7	384
280805	5 G 10	19.4	480
280604	4 G 16	22.5	615

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