ÖLFLEX® CONTROL TM CY

ÖLFLEX® Control Cable PVC Screened 0.6/1kV UL TC-ER WTTC AWM600V OIL RES CSA AWM

ÖLFLEX® CONTROL TM CY: UL MTW TC-ER WTTC AWM 600V OIL RES II WET CSA AWM I/II A/B FT4, Screened PVC Power Control Cable 0.6/1 kV, Tray Exposed Run, Wind Turbine

Info
Torsion resistant for drip loops
Wide application range (NFPA 70/NEC)/ compliance with NFPA 79 for industrial machinery
EMC/Screened



Torsion-resistant

Interference signals

Oil-resistant

Mechanical resistance

Flame-retardant

Cold-resistant

Benefits
Many certifications/ use types
Cost-saving, fast installation omitting protection systems
Electromagnetic field screening

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Application range
Industrial machinery; plant engineering
Unprotected 600V operation on cable tray in the USA, incl. 6 ft. Exposed Run laying sections
Compliant with Tool machines: (UL) MTW
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
Technically resistant to sunlight and ozone
High degree of screening
low transfer impedance
(max. 250 Ω/km at 30 MHz)
Suitable for torsional applications which are typical for the loop in wind turbine generators (WTG)

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)
Aluminum-coated foil
Tinned-copper braiding
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: 5/20 x OD*
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 ≤ 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.
Prices are net prices without VAT and surcharges. Sale to business customers only.
*OD = Outer diameter

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PRODUCT INFORMATION

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Article number	Number of cores and mm² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
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281803CY	3 G 1	8.1	49.5	119
281804CY	4 G 1	8.6	60.2	137
281805CY	5 G 1	9.3	81.4	149
281807CY	7 G 1	10	101.1	193
281812CY	12 G 1	12.8	161.4	281
281818CY	18 G 1	15.5	228.2	438
281825CY	25 G 1	17.5	326.4	574
281603CY	3 G 1.5	8.8	65	144
281604CY	4 G 1.5	9.4	81.9	173
281605CY	5 G 1.5	10.2	99.1	189
281607CY	7 G 1.5	11.1	140.4	246
281612CY	12 G 1.5	15	225.2	426
281618CY	18 G 1.5	17.2	321.7	552
281403CY	3 G 2.5	9.7	105.7	180
281404CY	4 G 2.5	10.4	135.6	223
281405CY	5 G 2.5	11.5	160.3	268
281407CY	7 G 2.5	12.4	213	327
281204CY	4 G 4	12.3	198.5	315
281205CY	5 G 4	14.2	242.7	388
281004CY	4 G 6	15.3	284.236	552
280804CY	4 G 10	18.5	458.4	857

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