

## ÖLFLEX® CONTROL TM CY

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

ÖLFLEX® CONTROL TM CY: UL MTW TC-ER WTTTC 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

Last Update (09.02.2018)

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Product Management [www.lappkabel.de](http://www.lappkabel.de)

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

PN 0456 / 02\_03.16

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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 (WTTTC)

### 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) WTTTC [E323700], (UL) THHN/THWN (> 1.5 mm<sup>2</sup>/16 AWG) [E172162], UL AWM Style 20886 [E100338]

From June 2018:

Sunlight Resistant (Sun. Res.), Direct Burial (Dir. Bur.), Submersible Pump Cable (> 1.5 mm<sup>2</sup>/16 AWG, and < 8 conductors), (UL) PLTC (< 6 mm<sup>2</sup>/10 AWG) [E216027], (UL) ITC (< 6 mm<sup>2</sup>/10 AWG) [E196134], (UL) DP-1 [E233406]

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

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:	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-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), WTTTC 1000 V UL AWM: 600 V CSA AWM: 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](http://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 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.

\*OD = Outer diameter

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Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® CONTROL TM CY				
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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