

## ÖLFLEX® CONTROL TM CY

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

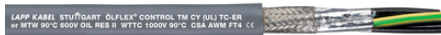
ÖLFLEX® CONTROL TM CY: UL MTW TC-ER WTTC AWM 600V OIL RES II WET CSA AWM I/II A/B FT4, Screened PVC Power Control Cable 0.6/1 kV, Tray Exposed Run, Wind Turbine

### Info

Torsion resistant for drip loops

Wide application range (NFPA 70/NEC)/ compliance with NFPA 79 for industrial machinery

EMC/Screened



Flame-retardant



Cold-resistant



Mechanical resistance



Oil-resistant



Interference signals



Torsion-resistant



UV-resistant

### Benefits

Many certifications/ use types

Cost-saving, fast installation omitting protection systems

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

PN 0456 / 02\_03.16

## ÖLFLEX® CONTROL TM CY

Electromagnetic field screening  
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  
USA Wind Turbine Tray Cable (WTTC) do turbin wiatrowych  
Outdoor use and Direct Burial in the USA, per UL 1277

### 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 mm<sup>2</sup>/16 AWG) [E172162], UL AWM Style 20886 [E100338]  
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<br>ETIM 5.0 Class-Description: Control cable   |
| Classification ETIM 6:    | ETIM 6.0 Class-ID: EC000104<br>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:   | 6 x OD   |
| Nominal voltage:          | UL/CSA: 600 V (TC, MTW, CIC), WTTC 1000 V<br>UL AWM: 600 V<br>CSA AWM: 1000 V<br>IEC: U <sub>0</sub> /U = 600/1000 V |
| Test voltage:             | 2000 V   |

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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

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 ≤ 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.

**ÖLFLEX® CONTROL TM CY**

| 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 1.0   | 8.1                 | 49.5                 | 119            |
| 281804CY              | 4 G 1.0   | 8.6                 | 60.2                 | 137            |
| 281805CY              | 5 G 1.0   | 9.3                 | 81.4                 | 149            |
| 281807CY              | 7 G 1.0   | 10                  | 101.1                | 193            |
| 281812CY              | 12 G 1.0  | 12.8                | 161.4                | 281            |
| 281818CY              | 18 G 1.0  | 15.5                | 228.2                | 438            |
| 281825CY              | 25 G 1.0  | 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 4.0   | 12.3                | 198.5                | 315            |
| 281205CY              | 5 G 4.0   | 14.2                | 242.7                | 388            |
| 281004CY              | 4 G 6.0   | 15.3                | 284.236              | 552            |
| 280804CY              | 4 G 10.0  | 18.5                | 458.4                | 857            |

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