

## 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. + 75C WET



Flame-retardant



Cold-resistant



Mechanical resistance



Oil-resistant



Torsion-resistant



UV-resistant

### Benefits

Many certifications/ use types

Cost-saving, fast installation omitting protection systems

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

Last Update (24.04.2024)

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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 in the USA

Compliant with Tool machines: (UL) MTW

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

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

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]

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, 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)

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:

4 x OD

Nominal voltage:

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

UL AWM: 600 V

CSA AWM: 1000 V

IEC:  $U_0/U = 600/1000$  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 (TC) or +105°C (AWM)

## Note

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## ÖLFLEX® CONTROL TM

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.

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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 |                                                   |                     |                      |                |
| 281803             | 3 G 1.0                                           | 7.4                 | 28.8                 | 82             |
| 281804             | 4 G 1.0                                           | 8                   | 38.4                 | 95             |
| 281805             | 5 G 1.0                                           | 8.6                 | 48                   | 112            |
| 281807             | 7 G 1.0                                           | 9.3                 | 67                   | 144            |
| 281812             | 12 G 1.0                                          | 12                  | 115                  | 247            |
| 281818             | 18 G 1.0                                          | 14.7                | 173                  | 365            |
| 281825             | 25 G 1.0                                          | 16.7                | 240                  | 464            |
| 281602             | 2 X 1.5                                           | 7.3                 | 28.8                 | 74             |
| 281603             | 3 G 1.5                                           | 8.1                 | 43                   | 100            |
| 281604             | 4 G 1.5                                           | 8.8                 | 58                   | 119            |
| 281605             | 5 G 1.5                                           | 9.5                 | 72                   | 141            |
| 281607             | 7 G 1.5                                           | 10.3                | 101                  | 183            |
| 281609             | 9 G 1.5                                           | 11.9                | 129.6                | 247            |
| 281612             | 12 G 1.5                                          | 14.1                | 172.8                | 328            |
| 281618             | 18 G 1.5                                          | 16.4                | 259                  | 403            |
| 281625             | 25 G 1.5                                          | 18.6                | 360                  | 596            |
| 281403             | 3 G 2.5                                           | 8.9                 | 72                   | 125            |
| 281404             | 4 G 2.5                                           | 9.8                 | 96                   | 175            |
| 281405             | 5 G 2.5                                           | 10.7                | 120                  | 185            |
| 281407             | 7 G 2.5                                           | 11.6                | 168                  | 244            |
| 281203             | 3 G 4.0                                           | 10.6                | 115                  | 165            |
| 281204             | 4 G 4.0                                           | 11.5                | 154                  | 220            |
| 281205             | 5 G 4.0                                           | 12.6                | 192                  | 269            |
| 281207             | 7 G 4.0                                           | 14.6                | 269                  | 482            |
| 281004             | 4 G 6.0                                           | 14.5                | 231                  | 382            |
| 281005             | 5 G 6.0                                           | 15.8                | 288                  | 457            |
| 280804             | 4 G 10.0                                          | 17.7                | 384                  | 615            |
| 280805             | 5 G 10.0                                          | 19.4                | 480                  | 771            |
| 280604             | 4 G 16.0                                          | 22.5                | 615                  | 864            |