

ÖLFLEX® CONTROL TM CY

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

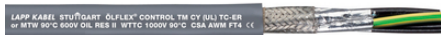
ÖLFLEX® CONTROL TM CY: UL MTW TC-ER WTTC AWM 600V OIL RES II WET CSA AWM I/II A/B FT4, Screened PVC Power Control Cable 0.6/1 kV, Tray Exposed Run, Wind Turbine

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

Last Update (29.04.2024)

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Product Management www.lappkabel.de

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

PN 0456 / 02_03.16

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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 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)
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: | 6 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 |

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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

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.

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| Article number | Number of cores and mm ² 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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