

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)

©2024 Lapp Group - Technical changes reserved

Product Management www.lappkabel.de

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

PN 0456 / 02_03.16

ÖLFLEX® CONTROL TM

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

Last Update (24.04.2024)

©2024 Lapp Group - Technical changes reserved

Product Management www.lappkabel.de

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

PN 0456 / 02_03.16

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

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

Article number	Number of cores and mm ² 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

Last Update (24.04.2024)
 ©2024 Lapp Group - Technical changes reserved
 Product Management www.lappkabel.de
 You can find the current technical data in the corresponding data sheet.
 PN 0456 / 02_03_16