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. approval in preparation



Torsion-resistant

Oil-resistant

Mechanical resistance

Flame-retardant

Cold-resistant

Benefits
Many certifications/ use types
Cost-saving, fast installation omitting protection systems

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Application range

Industrial machinery; plant engineering
Compliant with Tool machines: (UL) MTW
Unprotected 600V operation on cable tray in the USA, incl. 6 ft. Exposed Run laying sections
USA Wind Turbine Tray Cable (WTTC)

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]
From June 2018:
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, NFPA 79 2012 + 2015 Edition
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 5.0 Class-ID: EC000104 ETIM 5.0 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: 5/15xOD*
Nominal voltage:	UL/CSA: 600 V (TC, MTW, CIC), WTTC 1000 V UL AWM: 600 V CSA AWM: 1000 V IEC U0/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 (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
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 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

Last Update (16.10.2017)
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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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PRODUCT INFORMATION

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Article number	Number of cores and mm² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® CONTROL TM				
281803	3 G 1	7.4	28.8	82
281804	4 G 1	8	38.4	95
281805	5 G 1	8.6	48	112
281807	7 G 1	9.3	67	144
281812	12 G 1	12	115	247
281818	18 G 1	14.7	173	365
281825	25 G 1	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	10.6	115	165
281204	4 G 4	11.5	154	220
281205	5 G 4	12.6	192	269
281207	7 G 4	14.6	269	482
281004	4 G 6	14.5	231	382
281005	5 G 6	15.8	288	457
280804	4 G 10	17.7	384	615
280805	5 G 10	19.4	480	771
280604	4 G 16	22.5	615	864

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