

ÖLFLEX® CONTROL TM

NPFA 79 Edition 2007 conform MTW listed Machine cable.
TM: "Tray" + "Machinery"



Information:

ÖLFLEX® CONTROL TM will gradually replace **ÖLFLEX® 191**

Application

- USA NFPA 79 Edition 2007 conform MTW listed Machine Cable for North America.
- For fixed installation. TC (Tray Cable) Listing also allows wiring in between machines on cable trays in accordance to NEC
- "Exposed Run"-approved, thus suitable for open wiring
- For free, non-recurring movement without tensile load or compulsory guidance as well as for fixed installation.
- TC-ER (Exposed Run) approval for open / exposed run between cable tray and utilization equipment or devices on and in machines in industrial establishments in acc. to NEC 336.10(7)
- Oil and wet rating allows an usage on / in metal processing machine tools
- AWG conductors adapted to metric sizes allows an CE-conform usage in Europe

- c(UL) CIC and TC listing & CSA AWM I/II A/B approvals allows nearly similar fields of applications in USA and Canada
- Class 1, Div. 2 per NEC Art. 336, 392, 501
- UL/CSA recognized: AWM 1000V, 105°C,
- NOM listed (Norma Oficial Mexicana)

Areas of application:

- Plant engineering and construction
- Machine tools
- Automotive industry
- Industrial plants

Advantage

- According to the Exposed Run approval, unprotected installation with no restrictions on distance between cable tray and electrical equipment is allowed
- Makes installations much easier, quicker in compliance to your industrial requirements

- As a result of the short lay length stranding, the precisely extruded outer sheath and the world-wide approvals, ÖLFLEX® CONTROL TM is a superior alternative to stationary TC cables
- Its flexible design allows a quick and easy installation, small bending radii and protects against conductor -breakdowns may occurred by mechanical shocks / vibrations

Worth knowing

Accessories

- SKINTOP® and SKINDICHT® cable glands
 - SILVYN® Cable Conduit Systems
 - FLEXIMARK® Cable Marking
 - Cable processing products see "Cable Accessories"
- Comparable products:
- Further UL listed and/ CSA approved cables: ÖLFLEX® TRAY II & TRAY II CY

Technical notes:

- Flame-retardant acc. to: UL 1581, Section 1160 (surpasses IEC 60332-1-2) CSA FT4
- Special version on request
- Alternatives for usage outdoors, free in air or direct burial: ÖLFLEX TRAY II or TRAY II CY

Cable Make-up

- Finely stranded bare copper wires in metric adapte AWG sizes
- Specially blended PVC insulation with Nylon Jacket
- Black cores with white numbers
- Cores twisted in short lay lengths
- Special PVC-based outer sheath compound
- Oil resistant (Oil Res I) , flame retardant and self extinguishing in accordance with IEC 60332.1-2 and CSA FT4
- Silver grey (RAL 7001)

Technical Data

Core identification code
Black cores with white numbers plus green/yellow protective conductor

Approvals
UL Type TC-ER or BUS DROP cable UL Type MTW
UL AWM c(UL) Type TC and CIC FT4
CSA AWM I/II A/B FT4
NOM Norma Oficial Mexicana

Specific insulation resistance
> 10 GOhm x cm

Conductor stranding
Fine wire

Minimum bending radius
fixed installation :
5 x cable diameter
flexible installation:
20 x outer diameter

Rated voltage
UL/CSA: 600 V (TC, MTW, CIC)
UL/CSA: 1000 V (AWM) HAR:
U_c/U 300/500 V

Protective conductor
G = with protective conductor
GN/YE
X = without protective conductor

Range of temperature
flexible: -5°C to +90 °C;
AWM: +105°C
Fixed installation:
-40°C to +90°C;
AWM: +105°C

Part number	Number of cores and AWG per conductor	mm ²	Outer diameter in mm approx.	Copper weight kg/km	Weight kg/km approx.
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ÖLFLEX® CONTROL TM					
281803	3 G AWG 18	1,0	7,4	28,8	82
281804	4 G AWG 18	1,0	8,0	38,4	95
281805	5 G AWG 18	1,0	8,6	48,0	112

G = with green/yellow protective conductor
X = without protective conductor
No cutting surcharges for original designs (75, 152, 305, 610 m)
Please specify the required design (e.g. 1 x 610 m drum or 8 x 75 m coils)
Coil ware < 30 kg, above that automatically drum ware
Copper base: EUR 150 / 100 kg

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Part number	Number of cores and AWG per conductor	mm ²	Outer diameter in mm approx.	Copper weight kg/km	Weight kg/km approx.
281807	7 G AWG 18	1,0	9,3	67,0	144
281812	12 G AWG 18	1,0	12,0	115,0	247
281818	18 G AWG 18	1,0	14,9	173,0	365
281825	25 G AWG 18	1,0	16,7	240,0	464
281602	2 X AWG 16	1,5	7,3	28,8	74
281603	3 G AWG 16	1,5	8,1	43,0	100
281604	4 G AWG 16	1,5	8,8	58,0	119
281605	5 G AWG 16	1,5	9,5	72,0	141
281607	7 G AWG 16	1,5	10,3	101,0	183
281609	9 G AWG 16	1,5	11,9	129,6	247
281612	12 G AWG 16	1,5	14,2	173,0	328
281618	18 G AWG 16	1,5	16,2	259,0	403
281625	25 G AWG 16	1,5	18,6	360,0	464
281403	3 G AWG 14	2,5	9,1	72,0	125
281404	4 G AWG 14	2,5	9,8	96,0	155
281405	5 G AWG 14	2,5	10,7	120,0	185
281407	7 G AWG 14	2,5	11,6	168,0	244
281203	3 G AWG 12	4	10,6	115,0	165
281204	4 G AWG 12	4	11,5	154,0	220
281205	5 G AWG 12	4	12,6	192,0	269
281207	7 G AWG 12	4	14,6	269,0	482
281004	4 G AWG 10	6	14,5	231,0	382
281005	5 G AWG 10	6	15,8	288,0	457
280804	4 G AWG 8	10	19,5	384,0	615
280805	5 G AWG 8	10	22,6	480,0	771
280604	4 G AWG 6	16	22,8	615,0	864

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