

# TRAYCONTROL 500-C flexible, oil-resistant, screened, EMC-preferred type, open installation TC-ER, PLTC-ER, ITC-ER, NFPA 79 Edition 2007



new



HELUKABEL TRAYCONTROL 500-C P/N 62855 12AWG 3,31QMM 4C (UL) TC-ER 90°C DRY 75°C WET 600 V SUN RES DIR BUR OIL RES I/II E330430 OR MTW "FLEXING" OR WTTC 1000 V OR c(UL)CIC TC FT4 LL41103 CSA AWM I/II 90°C 600 V FT4 CE ROHS



## Technical data

- PVC control cable according to UL Standard 1277
- **Temperature range**  
Flexing -5 °C to +90 °C  
Fixed installation -40 °C to +90 °C
- **Nominal voltage**  
TC 600 V  
AWM 1000 V  
TC Wind Turbine (WTTC) 1000 V
- **Test voltage** 3000 V
- **Coupling resistance**  
max. 250 Ohm/km
- **Minimum bending radius**  
Flexing 6x cable ø
- **Insulation resistance**  
Min. 20 MOhm x km
- **Radiation resistance**  
up to 80x106 cJ/kg (up to 80 Mrad)

## Cable structure

- Bare copper conductor, fine wire stranded
- Special PVC core insulation with transparent nylon skin
- Black cores with continuous white numbering
- Green-yellow earth core in the outer layer, 3 cores and more
- Cores stranded in layers with optimal lay-lengths
- Separating foil
- Braided screening of tinned copper wires, coverage approx. 85%
- Separator
- Special PVC outer jacket
- Sheath colour - grey (RAL 7001)
- With length marking in feet

## Properties

- Self-extinguishing and flame retardant in accordance with CSA FT4
- The materials used in manufacture are free of silicone, cadmium and substances that impair paint wetting

### Tests

**UL:** TC-ER, PLTC-ER (AWG 18 - AWG 12), ITC-ER (AWG 18 - AWG 12), MTW, NFPA 79 2007, WTTC 1000V, DP-1, OIL RES I & II, 90°C dry / 75 °C wet, Class 1 Div. 2 per NEC Art 336, 392, 501, crush impact test in accordance with UL 1277

**CSA:** c(UL) CIC-TC FT4, CSA AWM I/II A/B FT4

## Note

### Advantages

- Highly-flexible, easy to install

### Available on request

- with blue cores (DC)
- with red cores (AC)
- Black or TPE outer sheath

## Application

HELUKABEL TRAYCONTROL 500-C is a flexible, screened and oil-resistant control cable. The special combination of TC-ER, PLTC-ER and ITC-ER allows this cable to be used as a connecting cable for industrial plant and machinery in accordance with NFPA 79 2007. Approved for open, unprotected installation in cable trays to the machine. Its outstanding oil resistance (OIL RES I & II) guarantees a long service life for industrial applications in dry, damp and wet environments. Recommended applications: production lines, bottling plants, machine construction, switch cabinets, conveyor systems, packaging machines, automotive industry.

**EMC** = Electromagnetic compatibility. To optimise EMC characteristics, we recommend a large contact area for the copper braiding around the entire circumference on both ends.

**CE** = The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	AWG-No.	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km
62813	2 x 0,5	20	7,0	35,0	95,0
62814	3 G 0,5	20	7,6	42,0	115,0
62815	7 G 0,5	20	9,4	69,0	164,0
62816	12 G 0,5	20	11,0	108,0	266,0
62817	25 G 0,5	20	16,1	240,0	435,0
62818	2 x 1	18	8,1	50,0	110,0
62819	3 G 1	18	8,2	60,0	118,0
62820	4 G 1	18	8,8	71,0	136,0
62821	5 G 1	18	9,4	88,0	148,0
62822	7 G 1	18	10,1	111,0	192,0
62823	9 G 1	18	11,4	140,0	244,0
62824	10 G 1	18	11,6	150,0	283,0
62825	12 G 1	18	12,9	184,0	329,0
62826	15 G 1	18	14,8	207,0	377,0
62827	18 G 1	18	15,7	260,0	435,0
62828	19 G 1	18	15,7	280,0	443,0
62829	25 G 1	18	17,7	349,0	571,0
62830	3 G 1,5	16	8,9	74,0	144,0
62831	4 G 1,5	16	9,6	90,0	172,0
62832	5 G 1,5	16	10,3	104,0	188,0
62833	6 G 1,5	16	10,5	120,0	203,0
62834	7 G 1,5	16	11,3	134,0	244,0
62835	9 G 1,5	16	12,6	165,0	308,0
62836	10 G 1,5	16	12,9	180,0	346,0
62837	12 G 1,5	16	15,1	244,0	423,0
62838	15 G 1,5	16	16,4	270,0	441,0
62839	18 G 1,5	16	17,3	319,0	512,0
62840	19 G 1,5	16	17,6	327,0	503,0

Part no.	No. cores x cross-sec. mm <sup>2</sup>	AWG-No.	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km
62841	20 G 1,5	16	17,5	340,0	524,0
62842	25 G 1,5	16	19,6	434,0	704,0
62843	3 G 2,08	14	9,8	112,0	179,0
62844	4 G 2,08	14	10,7	121,0	222,0
62845	5 G 2,08	14	11,6	150,0	266,0
62846	7 G 0,5	14	12,5	200,0	326,0
62847	9 G 2,08	14	15,0	240,0	435,0
62848	10 G 2,08	14	16,3	264,0	427,0
62849	12 G 2,08	14	16,9	350,0	592,0
62850	15 G 2,08	14	18,3	409,0	635,0
62851	18 G 2,08	14	19,5	471,0	780,0
62852	19 G 2,08	14	19,7	505,0	799,0
62853	25 G 2,08	14	23,3	652,0	1042,0
62854	3 G 3,31	12	11,4	137,0	237,0
62855	4 G 3,31	12	12,5	169,0	314,0
62856	5 G 3,31	12	14,4	201,0	386,0
62857	6 G 3,31	12	14,6	236,0	425,0
62858	7 G 3,31	12	15,5	262,0	496,0
62859	9 G 3,31	12	17,7	334,0	740,0
62860	12 G 3,31	12	19,7	434,0	887,0
62861	15 G 3,31	12	21,0	531,0	903,0
62862	19 G 3,31	12	23,1	720,0	1123,0
62863	20 G 3,31	12	25,0	764,0	1490,0
62864	25 G 3,31	12	27,1	914,0	1865,0
62865	3 G 6	10	14,1	240,0	389,0
62866	4 G 6	10	15,5	305,0	549,0
62867	5 G 6	10	16,8	399,0	610,0
62868	7 G 6	10	18,2	505,0	851,0

Continuation ►

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Part no.	No. cores x cross-sec. mm²	AWG-No.	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km
62869	9 G 6	10	20,9	704,0	1132,0
62870	12 G 6	10	24,4	940,0	1523,0
62871	19 G 6	10	27,5	1210,0	1952,0
62872	4 G 10	8	18,7	535,0	852,0

Part no.	No. cores x cross-sec. mm²	AWG-No.	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km
62873	4 G 16	6	23,3	740,0	1202,0
62874	4 G 25	4	28,6	1140,0	1971,0
62875	4 G 35	2	33,2	1576,0	2887,0

Dimensions and specifications may be changed without prior notice. (RN01)

## Marking

Marking rings  
Cable marker  
Indian pen



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