

TRAYCONTROL® 500-C flexible, oil-resistant, shielded, EMC-preferred type, exposed run TC-ER, PLTC-ER, ITC-ER, NFPA 79, torsion rated



HELUKABEL TRAYCONTROL 500-C P/N 62855 12 AWG (3,31mm²) 4C (UL) TC-ER 90C DRY / WET 600V SUN RES DIR BUR OIL RES I/II E330430 OR MTW "FLEXING" OR WTTC 1000V OR c(UL) CIC-TC FT4 LL257839 CSA AWM I/II A/B 90C 600V FT4 CE

Technical data

- Shielded, PVC control and power cable acc. to UL Std. 1277 and 2277
- **Temperature range**
UL/CSA TC -40°C to +90°C
flexing +5°C to +50°C
static -40°C to +105°C
- **Nominal voltage**
UL/CSA TC 600 V
UL 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 80x10⁵ cJ/kg (up to 80 Mrad)

Cable structure

- Finely stranded (Cl. K), bare copper acc. to AWG standards
- Special PVC conductor insulation with transparent nylon coating
- Conductor identification to DIN VDE 0293 black conductors with continuous white numbering
- GN-YE conductor, 3 conductors and above in the outer layer
- Conductors stranded in layers with optimal lay length
- Foil separator
- Braided, tinned copper shield, approx. 85% coverage
- Separator
- Special PVC outer jacket
- Gray (RAL 7001) jacket
- With length marking in feet

Properties

- Self-extinguishing and flame retardant according to CSA FT4
- The materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers
- UV-resistant
- Direct burial rated
- Resistant to cleaning and disinfecting agents acc. to



Tests

- **UL:**
TC-ER (1277), WTTC (2277) & DP-1 - (18 AWG-500 kcmil), ITC-ER & PLTC-ER - (20-12 AWG), MTW, NFPA 79, Class I Div. 2 per NEC Art. 501, NEC Art. 336 & 392, Oil Res I/II, 90°C Dry/Wet, -40°C Cold Bend
- **CSA:**
C22.2 No. 230 & 239 - c(UL) CIC-TC FT4 (18-4/0 AWG), C22.2 No. 210 - AWM I/II A/B FT4

Note

Advantages

- Highly flexible, easy to install

Available on request

- With blue conductors (DC)
- With red conductors (AC)
- Black or TPE outer jacket

Application

TRAYCONTROL® 500-C is a flexible, shielded, and oil-resistant control and power cable. The special combination of TC-ER, PLTC-ER and ITC-ER allows this cable to be used as a connecting cable for machines throughout industrial plants, according to NFPA 79. It is approved for open, unprotected installation in cable trays to the machine. Its outstanding oil resistance (Oil Res I/II) guarantees a long service life in dry, damp and wet industrial environments. Recommended applications: production lines, machine building, switch cabinets, conveyor systems, packaging machines, bottling plants and automotive manufacturing facilities.

EMC = Electromagnetic compatibility

To optimize the EMC features we recommend a large round contact of the copper braiding on both ends.

☑= The product conforms to EC Low-Voltage Directive 2006/95/EC.

Part no.	Cross section mm ²	No. conductors x AWG No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
62813	0,507	2 x 20	7,3	26,6	76,0
62814	0,507	3 x 20	7,6	33,3	88,0
11009547	0,507	4 x 20	8,1	40,8	103,0
11009548	0,507	5 x 20	8,7	48,2	118,0
62815	0,507	7 x 20	9,3	61,5	143,0
11009549	0,507	9 x 20	10,5	76,9	174,0
62816	0,507	12 x 20	11,6	97,3	213,0
11009550	0,507	18 x 20	13,6	136,8	284,0
62817	0,507	25 x 20	16,2	182,9	405,0
62818	0,963	2 x 18	7,8	32,0	89,0
62819	0,963	3 x 18	8,2	43,9	107,0
62820	0,963	4 x 18	8,8	54,9	126,0
62821	0,963	5 x 18	9,4	66,3	150,0
62822	0,963	7 x 18	10,1	86,0	180,0
62823	0,963	9 x 18	11,6	110,3	222,0
62824	0,963	10 x 18	12,4	122,0	244,0
62825	0,963	12 x 18	12,8	150,9	278,0
62826	0,963	15 x 18	14,9	172,5	359,0
11009551	0,963	16 x 18	14,9	181,0	372,0
62827	0,963	18 x 18	15,6	201,8	402,0
62828	0,963	19 x 18	15,6	210,7	420,0
62829	0,963	25 x 18	17,9	280,7	543,0
11009552	0,963	27 x 18	18,4	307,6	576,0
11009553	0,963	34 x 18	20,3	379,2	695,0
11009554	0,963	37 x 18	20,3	406,1	734,0
11009555	0,963	41 x 18	22,7	448,4	865,0
11009556	0,963	50 x 18	24,5	537,4	1013,0
11009557	0,963	61 x 18	26,0	665,7	1205,0

Part no.	Cross section mm ²	No. conductors x AWG No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
11009558	1,31	2 x 16	8,4	43,0	100,0
62830	1,31	3 x 16	8,7	52,8	124,0
62831	1,31	4 x 16	9,4	65,9	149,0
62832	1,31	5 x 16	10,1	81,4	173,0
62833	1,31	6 x 16	10,9	100,0	196,0
62834	1,31	7 x 16	10,9	106,6	216,0
11009559	1,31	8 x 16	11,7	121,7	240,0
62835	1,31	9 x 16	12,5	141,8	265,0
62836	1,31	10 x 16	14,3	157,2	323,0
62837	1,31	12 x 16	14,7	193,5	365,0
11009560	1,31	14 x 16	15,3	209,4	405,0
62838	1,31	15 x 16	16,1	223,8	430,0
11009561	1,31	16 x 16	16,1	236,2	448,0
62839	1,31	18 x 16	16,8	279,2	499,0
62840	1,31	19 x 16	16,8	289,9	524,0
62841	1,31	20 x 16	17,8	305,5	552,0
62842	1,31	25 x 16	19,5	371,4	662,0
11009562	1,31	27 x 16	19,9	400,0	699,0
11009563	1,31	30 x 16	20,6	439,5	759,0
11009564	1,31	34 x 16	23,1	494,7	908,0
11009565	1,31	40 x 16	23,9	571,3	1022,0
11009566	1,31	41 x 16	24,7	586,9	1052,0
11009567	1,31	50 x 16	26,8	729,3	1263,0
11009568	1,31	61 x 16	28,3	871,6	1476,0
11009569	2,08	2 x 14	9,4	60,4	129,0
62843	2,08	3 x 14	9,8	76,5	161,0
62844	2,08	4 x 14	10,6	102,7	171,0
62845	2,08	5 x 14	11,5	124,4	231,0

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Part no.	Cross section mm ²	No. conductors x AWG No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
11009570	2,08	6 x 14	12,5	147,2	263,0
62846	2,08	7 x 14	12,5	162,8	290,0
62847	2,08	9 x 14	15,2	211,0	390,0
62848	2,08	10 x 14	16,3	233,6	443,0
62849	2,08	12 x 14	16,8	288,7	506,0
62850	2,08	15 x 14	18,6	353,6	603,0
11009571	2,08	16 x 14	18,6	372,8	628,0
62851	2,08	18 x 14	19,5	415,2	673,0
62852	2,08	19 x 14	19,5	434,4	716,0
62853	2,08	25 x 14	23,7	563,6	997,0
11009572	3,31	2 x 12	10,3	86,3	165,0
62854	3,31	3 x 12	10,8	118,6	208,0
62855	3,31	4 x 12	11,8	163,3	333,0
62856	3,31	5 x 12	12,8	202,2	313,0
62857	3,31	6 x 12	14,7	220,4	384,0
62858	3,31	7 x 12	14,7	251,1	418,0
62859	3,31	9 x 12	16,8	319,5	525,0
62860	3,31	12 x 12	18,8	434,2	680,0
62861	3,31	15 x 12	20,8	534,5	820,0
11009573	3,31	16 x 12	20,8	565,2	857,0
11009574	3,31	18 x 12	22,8	631,1	1006,0
62862	3,31	19 x 12	22,8	661,8	1045,0
62863	3,31	20 x 12	23,9	697,2	1100,0
62864	3,31	25 x 12	26,5	884,6	1354,0
11009575	5,26	2 x 10	12,3	130,1	232,0
62865	5,26	3 x 10	13,0	181,7	299,0
62866	5,26	4 x 10	15,0	258,0	412,0
62867	5,26	5 x 10	16,3	320,0	506,0

Part no.	Cross section mm ²	No. conductors x AWG No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
62868	5,26	7 x 10	17,8	407,0	640,0
62869	5,26	9 x 10	20,6	517,7	798,0
62870	5,26	12 x 10	24,0	676,1	1013,0
11009576	5,26	18 x 10	27,9	1013,9	1530,0
62871	5,26	19 x 10	27,9	1063,3	1591,0
11009577	5,26	25 x 10	32,4	1383,5	2034,0
11009578	8,37	3 x 8	18,1	299,6	525,0
62872	8,37	4 x 8	19,9	397,2	670,0
11009579	8,37	5 x 8	22,6	472,8	838,0
11009580	8,37	7 x 8	24,5	639,0	1074,0
11009581	13,3	3 x 6	20,1	445,1	701,0
62873	13,3	4 x 6	23,2	595,1	975,0
11009582	13,3	5 x 6	25,1	711,5	1128,0
11009583	13,3	7 x 6	27,5	994,8	1496,0
11009584	21,2	3 x 4	25,2	685,9	1101,0
62874	21,2	4 x 4	27,8	910,8	1406,0
11009585	21,2	5 x 4	30,4	1133,5	1702,0
11009586	33,6	3 x 2	29,3	1071,2	1565,0
62875	33,6	4 x 2	32,3	1413,8	2076,0
11009587	33,6	5 x 2	35,4	1729,4	2411,0
11009588	42,4	4 x 1	36,4	2154,9	2626,0
11009589	53,5	4 x 1/0	37,8	2152,3	2973,0
11009590	67,4	4 x 2/0	41,1	2716,8	3628,0
11009591	84,7	4 x 3/0	43,3	3365,8	4342,0
11009592	107,0	4 x 4/0	47,4	4166,9	5618,0
11009593	127,0	4 x 250 kcmil	53,1	4970,5	6503,0
11009594	175,0	4 x 350 kcmil	60,1	6769,7	8560,0
11009595	276,0	4 x 500 kcmil	70,7	9637,3	11790,0

Dimensions and specifications may be changed without prior notice.