

# TRAYCONTROL® 500 flexible, oil-resistant, exposed run TC-ER, PLTC-ER, ITC-ER, NFPA 79, torsion rated



HELUKABEL TRAYCONTROL 500 P/N 63111 14 AWG (2.08mm<sup>2</sup>) 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

- 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
- **Minimum bending radius**  
flexing 5x cable Ø
- **Insulation resistance**  
min. 20 MOhm x km
- **Radiation resistance**  
up to 80x10<sup>6</sup> 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
- Separator
- Special PVC outer jacket
- Gray (RAL 7001) jacket
- With length marking in feet

## Properties

- Self-extinguishing and flame retardant acc. 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 is a flexible, 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.

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

Part no.	Cross section mm <sup>2</sup>	No. conductors x AWG No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
63079	0,507	2 x 20	6,7	10,3	55,0
63080	0,507	3 x 20	7,1	13,7	61,0
63081	0,507	4 x 20	7,6	18,3	79,0
63082	0,507	5 x 20	8,1	22,9	88,0
63083	0,507	7 x 20	8,7	32,0	109,0
63084	0,507	9 x 20	10,1	41,7	137,0
63085	0,507	12 x 20	11,1	55,1	168,0
63086	0,507	18 x 20	12,9	82,9	231,0
63087	0,507	25 x 20	15,7	115,4	335,0
63088	0,963	2 x 18	7,3	19,3	67,0
63089	0,963	3 x 18	7,6	26,7	82,0
63090	0,963	4 x 18	8,2	34,5	100,0
63091	0,963	5 x 18	8,9	44,6	118,0
63092	0,963	7 x 18	9,6	62,7	149,0
63093	0,963	9 x 18	11,1	81,3	186,0
63094	0,963	10 x 18	11,8	90,4	205,0
63095	0,963	12 x 18	12,2	109,5	234,0
63096	0,963	15 x 18	14,4	134,5	314,0
63097	0,963	16 x 18	14,4	143,3	327,0
63098	0,963	18 x 18	15,1	161,4	363,0
63099	0,963	19 x 18	15,1	170,3	369,0
63100	0,963	25 x 18	17,4	188,4	475,0

Part no.	Cross section mm <sup>2</sup>	No. conductors x AWG No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
63101	0,963	27 x 18	17,7	242,2	501,0
63102	0,963	34 x 18	19,7	305,2	618,0
63103	0,963	37 x 18	19,7	332,3	652,0
63104	0,963	41 x 18	21,0	368,2	716,0
63105	0,963	50 x 18	24,0	449,2	912,0
63106	0,963	61 x 18	25,2	548,4	1071,0
63107	1,31	2 x 16	7,8	24,0	79,0
63108	1,31	3 x 16	8,2	36,1	104,0
63109	1,31	4 x 16	8,8	48,1	121,0
63110	1,31	5 x 16	9,6	60,4	143,0
63112	1,31	6 x 16	10,5	72,9	167,0
63113	1,31	7 x 16	10,5	87,8	183,0
63114	1,31	8 x 16	11,2	96,6	208,0
63115	1,31	9 x 16	12,0	108,8	228,0
63116	1,31	10 x 16	13,0	120,9	251,0
63117	1,31	12 x 16	13,4	145,3	292,0
63118	1,31	14 x 16	14,9	169,4	359,0
63119	1,31	15 x 16	15,6	181,6	384,0
63120	1,31	16 x 16	15,6	193,7	402,0
63121	1,31	18 x 16	16,4	218,6	443,0
63122	1,31	19 x 16	16,4	230,1	457,0
63123	1,31	20 x 16	17,1	242,3	482,0

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Part no.	Cross section mm <sup>2</sup>	No. conductors x AWG No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
63124	1,31	25 x 16	18,9	303,7	588,0
63125	1,31	27 x 16	19,3	327,4	621,0
63126	1,31	30 x 16	20,0	364,0	685,0
63127	1,31	34 x 16	22,5	412,7	826,0
63128	1,31	40 x 16	23,2	485,8	929,0
63129	1,31	41 x 16	24,0	497,7	952,0
63130	1,31	50 x 16	26,1	607,3	1138,0
63131	1,31	61 x 16	27,5	741,1	1333,0
63132	2,08	2 x 14	8,8	37,7	103,0
63133	2,08	3 x 14	9,2	56,6	134,0
63111	2,08	4 x 14	10,1	75,6	168,0
63164	2,08	5 x 14	10,9	94,5	190,0
63165	2,08	6 x 14	12,0	113,6	228,0
63166	2,08	7 x 14	12,0	132,6	251,0
63167	2,08	9 x 14	14,7	170,7	350,0
63168	2,08	10 x 14	15,8	189,7	384,0
63169	2,08	12 x 14	16,4	233,8	439,0
63170	2,08	16 x 14	18,0	303,9	555,0
63171	2,08	18 x 14	18,9	347,1	615,0
63172	2,08	19 x 14	18,9	361,0	640,0
63173	2,08	25 x 14	23,0	478,0	885,0
63174	3,31	2 x 12	9,7	62,2	137,0
63175	3,31	3 x 12	10,2	93,5	179,0
63176	3,31	4 x 12	11,2	125,1	223,0
63177	3,31	5 x 12	12,2	156,4	277,0
63178	3,31	6 x 12	13,4	187,5	317,0
63179	3,31	7 x 12	13,4	218,8	357,0
63180	3,31	9 x 12	16,4	281,7	484,0
63181	3,31	12 x 12	18,3	376,1	625,0
63182	3,31	16 x 12	20,1	502,0	789,0
11009539	3,31	18 x 12	22,3	564,8	936,0
63183	3,31	19 x 12	22,3	596,1	982,0
63184	3,31	20 x 12	23,3	627,9	1024,0

Part no.	Cross section mm <sup>2</sup>	No. conductors x AWG No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
63185	3,31	25 x 12	25,8	785,3	1257,0
63186	5,26	2 x 10	11,8	99,6	195,0
63187	5,26	3 x 10	12,5	149,6	260,0
63188	5,26	4 x 10	14,4	200,2	360,0
63189	5,26	5 x 10	15,8	251,2	435,0
63190	5,26	7 x 10	17,1	353,6	570,0
63191	5,26	9 x 10	19,9	449,6	716,0
63192	5,26	12 x 10	23,3	622,8	981,0
11009540	5,26	18 x 10	27,2	958,7	1415,0
63193	5,26	19 x 10	27,2	1031,3	1452,0
11009541	5,26	25 x 10	31,6	1376,6	1833,0
63194	8,37	3 x 8	17,4	238,1	454,0
63195	8,37	4 x 8	19,2	311,8	573,0
63196	8,37	5 x 8	21,0	390,2	692,0
11009542	8,37	7 x 8	23,9	552,1	1009,0
63197	13,3	3 x 6	19,5	378,3	634,0
63198	13,3	4 x 6	22,4	504,9	871,0
63199	13,3	5 x 6	24,5	631,9	1046,0
11009543	13,3	7 x 6	26,7	884,0	1391,0
62802	21,2	3 x 4	24,6	598,2	1031,0
62803	21,2	4 x 4	27,0	800,3	1265,0
62804	21,2	5 x 4	29,7	998,2	1579,0
62805	33,6	3 x 2	28,5	943,4	1488,0
62806	33,6	4 x 2	31,5	1259,4	1972,0
62807	33,6	5 x 2	34,6	1576,1	2344,0
62808	42,4	4 x 1	35,6	1549,4	2421,0
62809	53,5	4 x 1/0	37,0	2099,1	2969,0
62810	67,4	4 x 2/0	40,3	2560,9	3568,0
62811	84,7	4 x 3/0	44,0	2938,7	4402,0
62812	107,0	4 x 4/0	46,8	4078,2	5149,0
11009544	127,0	4 x 250 kcmil	53,5	4933,3	6418,0
11009545	177,0	4 x 350 kcmil	60,6	6989,9	8560,0
11009546	253,0	4 x 500 kcmil	71,5	9896,3	12222,0

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