

# TRAYCONTROL® X XLPE insulation, flexible, oil-resistant, WTTTC, exposed run TC-ER, PLTC-ER, ITC-ER, NFPA 79, 105°C, torsion rated



HELUKABEL® TRAYCONTROL X P/N 713217 18 AWG (0.963mm<sup>2</sup>)/3C (UL) TC-ER 90C DRY / WET 600V SUN RES DIR BUR OIL RES I/II E330430 OR WTTTC 1000V OR ITC-ER OR PLTC-ER OR AWM 2586 105C 600V OR C(UL) CIC-TC 600V XLPE FT4 --- 257839 CSA AWM I/II A/B 105C 600V FT4 --- CE BATCH CODE + SEQUENTIAL FOOTAGE MARKING

## Technical data

- XLPE-insulated, 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 WTTTC 1000 V
- **Test voltage** 3000 V
- **Minimum bending radius**  
flexing 5x cable Ø
- **Insulation resistance**  
min. 20 MOhm x km

## Cable structure

- Finely stranded (Cl. K), bare copper acc. to AWG standards
- Special XLPE conductor insulation
- 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
- Black (RAL 9005) 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 ECOLAB®

## Tests

- **UL:**  
TC-ER (1277) & WTTTC (2277) - (18 AWG-500 kcmil), ITC-ER & PLTC-ER - (20-12 AWG), XHHW-2 (14 AWG-500 kcmil), AWM 2586-105°C 600V, Submersible Pump Cable (14-4/0 AWG, 3-7 conductors), Joist Pull (-ER-JP) (16-2 AWG, 3-6 conductors), NFPA79, 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

## Application

NFPA 79 conformant flexible control and power cable with cross-linked (thermoset) polyethylene (XLPE) insulation. XLPE insulation is ideal for applications that require long cable runs due to its low capacitance. A higher current load rating is possible due to the conductor temperature resistance of 105°C. Rated for up to 600 V (WTTTC 1000 V), these tray cables are suitable for all machinery in tool and plant construction, and can be installed in dry, humid and damp environments, in the open and in pipes. For underground installation and for open, unprotected installation from the cable rack to machines in industrial plants. They are approved for use in 1kV wind turbine cable tray applications and tested for torsion applications.

CE = 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
713207	0,507	2 x 20	7,8	9,2	71,0
713208	0,507	3 x 20	8,3	13,9	73,0
713209	0,507	4 x 20	8,9	18,5	85,0
713210	0,507	5 x 20	9,7	23,2	98,0
713211	0,507	7 x 20	10,5	32,5	121,0
713212	0,507	9 x 20	12,1	41,9	153,0
713213	0,507	12 x 20	13,4	56,0	185,0
713214	0,507	18 x 20	16,4	83,8	286,0
713215	0,507	25 x 20	19,0	116,8	379,0
713216	0,963	2 x 18	8,4	17,4	86,0
713217	0,963	3 x 18	8,9	26,1	92,0
713218	0,963	4 x 18	9,6	34,8	109,0
713219	0,963	5 x 18	10,4	43,7	129,0
713220	0,963	7 x 18	11,3	61,2	161,0
713221	0,963	9 x 18	13,1	78,8	204,0
713222	0,963	10 x 18	15,0	87,7	249,0
713223	0,963	12 x 18	15,4	105,1	277,0
713224	0,963	15 x 18	17,0	131,6	333,0
713225	0,963	16 x 18	17,0	140,4	348,0
713226	0,963	18 x 18	17,9	157,9	382,0
713227	0,963	19 x 18	17,9	166,7	396,0
713228	0,963	25 x 18	20,7	219,8	506,0
713229	0,963	27 x 18	21,1	237,2	539,0
713230	0,963	34 x 18	24,6	299,3	714,0
713231	0,963	37 x 18	24,6	325,7	747,0
713232	0,963	41 x 18	26,3	360,9	829,0

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
713233	0,963	50 x 18	28,6	440,1	973,0
713234	0,963	61 x 18	30,3	539,0	1143,0
713235	1,31	2 x 16	8,9	24,0	92,0
713236	1,31	3 x 16	9,5	36,1	112,0
713237	1,31	4 x 16	8,8	48,1	129,0
713238	1,31	5 x 16	9,6	60,3	153,0
713239	1,31	6 x 16	10,2	72,5	179,0
713240	1,31	7 x 16	10,5	84,6	193,0
713241	1,31	8 x 16	11,1	96,7	222,0
713242	1,31	9 x 16	12,0	108,9	274,0
713243	1,31	10 x 16	12,4	121,1	298,0
713244	1,31	12 x 16	13,6	145,4	333,0
713245	1,31	14 x 16	14,5	169,6	378,0
713246	1,31	15 x 16	15,2	181,9	411,0
713247	1,31	16 x 16	16,0	194,1	421,0
713248	1,31	18 x 16	16,4	218,3	470,0
713249	1,31	19 x 16	16,6	230,5	485,0
713250	1,31	20 x 16	17,2	242,8	516,0
713251	1,31	25 x 16	18,9	303,8	673,0
713252	1,31	27 x 16	19,3	328,1	713,0
713253	1,31	30 x 16	20,0	364,6	777,0
713254	1,31	34 x 16	22,5	413,2	875,0
713255	1,31	40 x 16	23,5	486,6	982,0
713256	1,31	41 x 16	24,0	498,8	1012,0
713257	1,31	50 x 16	26,1	608,3	1204,0
713258	1,31	61 x 16	27,5	742,8	1414,0

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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	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
713259	2,08	2 x 14	10,0	37,9	119,0	713287	5,26	5 x 10	16,6	251,8	430,0
713260	2,08	3 x 14	10,5	56,9	143,0	713288	5,26	7 x 10	18,1	352,8	563,0
713261	2,08	4 x 14	11,4	75,9	173,0	713289	5,26	9 x 10	21,0	454,5	728,0
713262	2,08	5 x 14	12,5	95,0	204,0	713290	5,26	12 x 10	24,6	606,6	963,0
713263	2,08	6 x 14	14,5	114,3	265,0	11009453	5,26	18 x 10	28,7	888,0	1427,0
713264	2,08	7 x 14	14,5	133,1	227,0	713291	5,26	19 x 10	28,7	961,4	1491,0
713265	2,08	9 x 14	16,7	171,8	368,0	11009454	5,26	25 x 10	33,5	1233,4	1923,0
713266	2,08	10 x 14	18,0	191,0	402,0	11009455	8,37	3 x 8	17,9	236,8	460,0
713267	2,08	12 x 14	18,6	229,2	452,0	713292	8,37	4 x 8	19,6	311,7	615,0
713268	2,08	16 x 14	20,5	306,0	576,0	713293	8,37	5 x 8	22,6	390,8	756,0
713269	2,08	18 x 14	22,7	344,2	689,0	11009456	8,37	7 x 8	24,6	552,6	994,0
713270	2,08	19 x 14	22,7	363,3	713,0	713294	13,3	3 x 6	19,3	368,2	622,0
713271	2,08	25 x 14	26,3	478,5	917,0	713295	13,3	4 x 6	21,2	491,5	841,0
713272	3,31	2 x 12	10,9	60,5	153,0	713296	13,3	5 x 6	24,3	615,2	985,0
713273	3,31	3 x 12	11,5	90,8	189,0	11009457	13,3	7 x 6	28,2	871,2	1357,0
713274	3,31	4 x 12	12,6	121,0	231,0	713297	21,2	3 x 4	23,0	585,4	981,0
713275	3,31	5 x 12	14,6	151,7	301,0	713298	21,2	4 x 4	25,2	785,3	1257,0
713276	3,31	6 x 12	15,8	182,3	368,0	713299	21,2	5 x 4	27,7	984,5	1537,0
713277	3,31	7 x 12	15,8	212,7	388,0	713300	33,6	3 x 2	26,6	925,2	1369,0
713278	3,31	9 x 12	18,4	274,1	516,0	713301	33,6	4 x 2	29,2	1234,8	1726,0
713279	3,31	12 x 12	20,5	365,8	674,0	713302	33,6	5 x 2	32,2	1548,1	2106,0
713280	3,31	16 x 12	23,8	488,2	920,0	713303	42,3	4 x 1	33,1	1552,5	2158,0
11009452	3,31	18 x 12	25,0	568,3	1019,0	713304	52,9	4 x 1/0	35,9	1948,2	2626,0
713281	3,31	19 x 12	25,0	579,7	1063,0	713305	67,3	4 x 2/0	38,7	2487,6	3222,0
713282	3,31	20 x 12	26,3	610,8	1119,0	713306	85,0	4 x 3/0	41,0	3106,9	3914,0
713283	3,31	25 x 12	29,1	764,3	1365,0	713307	106,7	4 x 4/0	46,5	3926,3	4978,0
713284	5,26	2 x 10	12,4	100,3	214,0	713308	128,4	4 x 250 kcmil	52,1	4614,7	5848,0
713285	5,26	3 x 10	13,1	150,5	269,0	713309	181,9	4 x 350 kcmil	58,5	7431,8	7918,0
713286	5,26	4 x 10	15,2	201,3	360,0	713310	257,6	4 x 500 kcmil	69,2	9289,7	11097,0

Dimensions and specifications may be changed without prior notice.