

TRAYCONTROL® 600 flexible, oil-resistant, exposed run TC-ER, PLTC-ER, ITC-ER, NFPA 79, torsion rated



HELUKABEL © TRAYCONTROL 600 P/N 62980 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 PVC/N 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 80x10⁶ 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
- 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



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

- TC-ER, Tray Cable Exposed Run
- Simple installation
- Outstanding flexibility
- Torsion resistant for wind power application

Application

NFPA 79 conformant flexible control and power cable up to 600 V (WTTC 1000 V), for all machinery in new plant construction. Torsion resistant, exceptional flexibility and abrasion resistance. Suitable for installation in dry, humid and damp environments, outdoors and pipes. For underground installation and for open, unprotected installation from the cable tray to machines in industrial plants.

CE= 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
62020	0,507	2 x 20	6,7	10,3	55,0
62021	0,507	3 x 20	7,0	13,7	64,0
62022	0,507	4 x 20	7,5	18,3	74,0
62023	0,507	5 x 20	8,1	22,9	88,0
62024	0,507	7 x 20	8,7	32,0	109,0
62025	0,507	9 x 20	10,1	41,7	137,0
62026	0,507	12 x 20	11,1	55,1	168,0
62027	0,507	18 x 20	12,9	82,9	231,0
62028	0,507	25 x 20	15,7	115,5	335,0
62902	0,963	2 x 18	7,3	19,2	67,0
62903	0,963	3 x 18	7,6	26,8	82,0
62904	0,963	4 x 18	8,2	34,5	100,0
62905	0,963	5 x 18	8,9	44,6	118,0
62906	0,963	7 x 18	9,6	62,7	149,0
62907	0,963	9 x 18	11,0	81,4	186,0
62908	0,963	10 x 18	11,8	90,3	205,0
62909	0,963	12 x 18	12,2	109,5	234,0
62910	0,963	15 x 18	14,4	134,4	314,0
62911	0,963	16 x 18	14,4	143,3	327,0
62912	0,963	18 x 18	15,1	161,3	363,0
62913	0,963	19 x 18	15,1	170,4	369,0
62914	0,963	25 x 18	17,4	188,4	475,0
62915	0,963	27 x 18	17,7	242,3	501,0
62916	0,963	34 x 18	19,7	305,2	618,0
62917	0,963	37 x 18	19,7	332,3	652,0
62918	0,963	41 x 18	21,0	368,3	716,0
62919	0,963	50 x 18	24,0	449,3	912,0
62920	0,963	61 x 18	25,2	548,4	1071,0
62921	1,31	2 x 16	7,8	24,0	79,0
62922	1,31	3 x 16	8,2	36,2	104,0

Part no.	Cross section mm ²	No. conductors x AWG No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
62923	1,31	4 x 16	8,8	48,1	121,0
62924	1,31	5 x 16	9,6	60,4	143,0
62925	1,31	6 x 16	10,5	72,9	167,0
62926	1,31	7 x 16	10,5	87,8	183,0
62927	1,31	8 x 16	11,2	96,6	208,0
62928	1,31	9 x 16	12,0	108,8	231,0
62929	1,31	10 x 16	13,0	120,8	251,0
62930	1,31	12 x 16	13,4	145,4	289,0
62931	1,31	14 x 16	14,9	169,5	359,0
62932	1,31	15 x 16	15,6	181,6	384,0
62933	1,31	16 x 16	15,6	193,8	402,0
62934	1,31	18 x 16	16,4	218,6	446,0
62935	1,31	19 x 16	16,4	230,1	457,0
62936	1,31	20 x 16	17,1	242,3	482,0
62937	1,31	25 x 16	18,9	303,7	588,0
62938	1,31	27 x 16	19,3	327,4	621,0
62939	1,31	30 x 16	20,0	334,0	685,0
62940	1,31	34 x 16	22,5	412,7	815,0
62941	1,31	40 x 16	23,2	485,9	929,0
62942	1,31	41 x 16	24,0	497,6	952,0
62943	1,31	50 x 16	26,0	607,3	1131,0
62944	1,31	61 x 16	27,5	741,1	1333,0
62945	2,08	2 x 14	8,8	37,7	103,0
62946	2,08	3 x 14	9,2	56,6	131,0
62947	2,08	4 x 14	10,1	75,6	137,0
62948	2,08	5 x 14	10,9	94,5	190,0
62949	2,08	6 x 14	11,9	113,5	228,0
62950	2,08	7 x 14	12,0	132,6	251,0
62951	2,08	9 x 14	14,7	170,7	350,0
62952	2,08	10 x 14	15,8	189,7	384,0

Continuation ►

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Part no.	Cross section mm²	No. conductors x AWG No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
62953	2,08	12 x 14	16,4	233,8	442,0
62954	2,08	16 x 14	18,0	303,9	555,0
62955	2,08	18 x 14	18,9	347,0	615,0
62956	2,08	19 x 14	18,9	361,0	640,0
62957	2,08	25 x 14	22,8	478,0	879,0
62958	3,31	2 x 12	9,7	62,2	137,0
62959	3,31	3 x 12	10,2	93,5	179,0
62960	3,31	4 x 12	11,2	125,2	223,0
62961	3,31	5 x 12	12,2	156,4	271,0
62962	3,31	6 x 12	13,3	187,5	317,0
62963	3,31	7 x 12	13,4	218,8	357,0
62964	3,31	9 x 12	16,4	281,7	484,0
62965	3,31	12 x 12	18,3	376,1	625,0
62966	3,31	16 x 12	20,1	502,0	789,0
11009458	3,31	18 x 12	22,3	564,8	936,0
62967	3,31	19 x 12	22,3	596,2	982,0
62968	3,31	20 x 12	23,3	627,9	1024,0
62969	3,31	25 x 12	25,8	785,3	1257,0
62970	5,26	2 x 10	11,8	99,7	195,0
62971	5,26	3 x 10	12,5	149,6	260,0
62972	5,26	4 x 10	14,4	200,2	360,0
62973	5,26	5 x 10	15,8	251,2	435,0
62974	5,26	7 x 10	17,1	353,6	570,0
62975	5,26	9 x 10	19,9	449,6	716,0
62976	5,26	12 x 10	23,3	622,8	981,0

Part no.	Cross section mm²	No. conductors x AWG No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
11009459	5,26	18 x 10	27,2	958,7	1415,0
62977	5,26	19 x 10	27,2	1031,3	1452,0
11009460	5,26	25 x 10	31,6	1377,1	1833,0
11009461	8,37	3 x 8	17,4	238,1	454,0
62978	8,37	4 x 8	19,2	311,8	573,0
62979	8,37	5 x 8	21,0	390,2	692,0
710466	8,37	7 x 8	23,9	552,6	1009,0
62980	13,3	3 x 6	19,5	378,3	634,0
62981	13,3	4 x 6	22,3	504,9	863,0
62982	13,3	5 x 6	24,5	631,9	1049,0
63134	13,3	7 x 6	26,7	884,0	1391,0
62983	21,2	3 x 4	24,6	598,2	1031,0
62984	21,2	4 x 4	26,9	800,3	1257,0
62985	21,2	5 x 4	29,9	998,1	1540,0
62986	33,6	3 x 2	28,5	943,5	1488,0
62987	33,6	4 x 2	31,4	1259,4	1902,0
62988	33,6	5 x 2	34,6	1576,1	2344,0
62989	42,4	4 x 1	35,6	1549,2	2388,0
62990	53,5	4 x 1/0	37,0	2099,1	2939,0
62991	67,4	4 x 2/0	40,3	2560,8	3568,0
62992	84,7	4 x 3/0	44,0	2938,7	4402,0
62993	107,0	4 x 4/0	46,8	4078,2	5149,0
62994	127,0	4 x 250 kcmil	53,5	4933,3	6418,0
62995	175,0	4 x 350 kcmil	60,6	6989,9	8560,0
62996	256,0	4 x 500 kcmil	71,5	9896,3	12222,0

Dimensions and specifications may be changed without prior notice.



Suitable accessories can be found in Chapter X.

- Cable Gland - HELUTOP® HT-E