

TRAYCONTROL® 600

Oil Res I/II, exposed run: TC-ER, PLTC-ER, ITC-ER, NFPA 79



HELUKABEL® TRAYCONTROL® 600 P/N 62960 12AWG 4C (UL) TC-ER 90°C DRY WET 600V SUN RES DIR BUR OIL RES I/II E330430 OR MTW "FLEXING" OR WTTC 1000V OR c(UL)CIC TC FT4 CSA AWM I/II 105°C 1000V FT4

TECHNICAL DATA

PVC control and connection cable acc. to CSA-Std. C22.2 No. 210 - AWM I/II A/B, 20 AWG - 1 AWG: UL-Std. 1063 (MTW), 20 AWG - 12 AWG: UL-Std. 2250 (ITC-ER), UL-Std. 13 (PLTC-ER), 18 AWG - 500 kcmil: UL-Std. 1277 (TC-ER), UL-Std. 2277 (WTTC), UL-Std. 1690 (DP-1), 18 AWG - 4/0 AWG: CSA-Std. C22.2 No. 230 & 239 - c(UL) CIC-TC, 1/0 AWG - 500 kcmil: UL-Std. 44 (XHHW-2)

Temperature range	flexible +5°C to +50°C fixed -25°C to +105°C UL (TC) flexible to +90°C
Nominal voltage	UL (TC) AC 600 V UL (WTTC) AC 1000 V UL (MTW) AC 600 V CIC-TC AC 600 V
Test voltage core/core	6000 V
Minimum bending radius	flexible 12x Outer-Ø fixed 6x Outer-Ø

- direct burial (DIR BUR)
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

TESTS

- flame-retardant acc. to CSA FT4
- oil-resistant acc. to UL Std 1277 Tab. 12.2, Oil Res I / Oil Res II
- Cold Bend Test acc. to UL Std. 1277 No. 17
- Impact Test (-ER) acc. to UL Std. 1277 No. 23
- Crushing Test (-ER) acc. to UL Std. 1277 No. 24
- direct burial (DIR BUR) acc. to UL Std. 1277 No. 5 (wet-locations insulation), No. 19 (crushing test)
- Vertical-Tray Flame Test (FT4) acc. to UL Std. 1277 No. 15 / UL Std. 1685
- certifications and approvals:
EAC
ECOLAB®
Part numbers with protective conductor (GN-YE): for Class 1 Div. 2 explosive environments acc. to NEC Art. 501

CABLE STRUCTURE

- Copper wire bare, finely stranded acc. to ASTM B174 Class K, AWG sizes
- Core insulation: see table
- Core identification: black cores with consecutive labeling in white digits
- Protective conductor: starting with 3 cores,
G = with protective conductor GN-YE, in the outer layer,
x = without protective conductor
- Cores stranded in layers with optimal lay lengths
- Outer sheath: Special-PVC
- Sheath colour: black (RAL 9005)
- Length marking: in feet

APPLICATION

TRAYCONTROL® 600 is a flexible, 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. Approved for open, unprotected installation in cable trays to the machine. Its outstanding oil resistance (OIL RES I & II) allows for 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. Only cables with 3 or more cores are rated for exposed run (ER).

PROPERTIES

- resistant to: oil, UV radiation (SUN RES)
- for outdoor use

NOTES

- Conductor sizes are based on the AWG measurement system, metric conductor sizes (mm²) are approximated and are for reference only

Part no.	No. cores x AWG-No.	Cross-sec. mm ² , approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.	Core insulation
62020	2 x 20	0.51	6.7	9.3	55.0	PVC / Nylon
62021	3 G 20	0.51	7.0	13.9	64.0	PVC / Nylon
62022	4 G 20	0.51	7.5	18.5	74.0	PVC / Nylon
62023	5 G 20	0.51	8.1	23.2	88.0	PVC / Nylon
62024	7 G 20	0.51	8.7	32.5	109.0	PVC / Nylon
62025	9 G 20	0.51	10.1	41.9	137.0	PVC / Nylon
62026	12 G 20	0.51	11.1	55.9	168.0	PVC / Nylon
62027	18 G 20	0.51	12.9	84.0	231.0	PVC / Nylon
62028	25 G 20	0.51	15.7	116.9	335.0	PVC / Nylon
62902	2 x 18	0.96	7.3	17.4	67.0	PVC / Nylon
62903	3 G 18	0.96	7.6	26.1	82.0	PVC / Nylon
62904	4 G 18	0.96	8.2	34.9	100.0	PVC / Nylon
62905	5 G 18	0.96	8.9	43.6	118.0	PVC / Nylon
62906	7 G 18	0.96	9.6	61.2	149.0	PVC / Nylon
62907	9 G 18	0.96	11.1	78.8	186.0	PVC / Nylon

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Part no.	No. cores x AWG-No.	Cross-sec. mm ² , approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.	Core insulation
62908	10 G 18	0.96	11.8	87.3	205.0	PVC / Nylon
62909	12 G 18	0.96	12.2	104.8	234.0	PVC / Nylon
62910	15 G 18	0.96	14.4	131.7	314.0	PVC / Nylon
62911	16 G 18	0.96	14.4	140.4	327.0	PVC / Nylon
62912	18 G 18	0.96	15.1	157.8	363.0	PVC / Nylon
62913	19 G 18	0.96	15.1	166.6	369.0	PVC / Nylon
62914	25 G 18	0.96	17.4	219.7	475.0	PVC / Nylon
62915	27 G 18	0.96	17.7	236.0	501.0	PVC / Nylon
62916	34 G 18	0.96	19.7	298.3	618.0	PVC / Nylon
62917	37 G 18	0.96	19.7	323.4	652.0	PVC / Nylon
62918	41 G 18	0.96	21.0	358.6	716.0	PVC / Nylon
62919	50 G 18	0.96	24.0	439.5	912.0	PVC / Nylon
62920	61 G 18	0.96	25.2	536.3	1071.0	PVC / Nylon
62921	2 x 16	1.31	7.8	24.0	79.0	PVC / Nylon
62922	3 G 16	1.31	8.2	36.1	104.0	PVC / Nylon
62923	4 G 16	1.31	8.8	48.2	121.0	PVC / Nylon
62924	5 G 16	1.31	9.6	60.4	143.0	PVC / Nylon
62925	6 G 16	1.31	10.5	72.5	167.0	PVC / Nylon
62926	7 G 16	1.31	10.5	84.5	183.0	PVC / Nylon
62927	8 G 16	1.31	11.2	96.4	208.0	PVC / Nylon
62928	9 G 16	1.31	12.0	108.9	228.0	PVC / Nylon
62929	10 G 16	1.31	13.0	121.1	251.0	PVC / Nylon
62930	12 G 16	1.31	13.4	144.8	292.0	PVC / Nylon
62931	14 G 16	1.31	14.9	169.7	359.0	PVC / Nylon
62932	15 G 16	1.31	15.6	181.9	384.0	PVC / Nylon
62933	16 G 16	1.31	15.6	194.0	402.0	PVC / Nylon
62934	18 G 16	1.31	16.4	218.3	443.0	PVC / Nylon
62935	19 G 16	1.31	16.4	230.4	457.0	PVC / Nylon
62936	20 G 16	1.31	17.1	242.9	482.0	PVC / Nylon
62937	25 G 16	1.31	18.9	303.8	588.0	PVC / Nylon
62938	27 G 16	1.31	19.3	326.2	621.0	PVC / Nylon
62939	30 G 16	1.31	20.0	362.3	685.0	PVC / Nylon
62940	34 G 16	1.31	22.5	411.0	826.0	PVC / Nylon
62941	40 G 16	1.31	23.2	483.3	929.0	PVC / Nylon
62942	41 G 16	1.31	24.0	495.9	952.0	PVC / Nylon
62943	50 G 16	1.31	26.1	604.5	1138.0	PVC / Nylon
62944	61 G 16	1.31	27.5	737.0	1333.0	PVC / Nylon
62945	2 x 14	2.08	8.8	37.9	103.0	PVC / Nylon
62946	3 G 14	2.08	9.2	56.9	134.0	PVC / Nylon
62947	4 G 14	2.08	10.1	76.0	168.0	PVC / Nylon
62948	5 G 14	2.08	10.9	95.1	190.0	PVC / Nylon
62949	6 G 14	2.08	12.0	114.2	228.0	PVC / Nylon
62950	7 G 14	2.08	12.0	133.1	251.0	PVC / Nylon
62951	9 G 14	2.08	14.7	171.7	350.0	PVC / Nylon
62952	10 G 14	2.08	15.8	191.0	384.0	PVC / Nylon
62953	12 G 14	2.08	16.4	228.8	439.0	PVC / Nylon
62954	16 G 14	2.08	18.0	306.0	555.0	PVC / Nylon
62955	18 G 14	2.08	18.9	344.4	615.0	PVC / Nylon
62956	19 G 14	2.08	18.9	363.5	640.0	PVC / Nylon
62957	25 G 14	2.08	23.0	478.9	885.0	PVC / Nylon
62958	2 x 12	3.31	9.7	60.5	137.0	PVC / Nylon
62959	3 G 12	3.31	10.2	90.8	179.0	PVC / Nylon
62960	4 G 12	3.31	11.2	121.2	223.0	PVC / Nylon
62961	5 G 12	3.31	12.2	151.8	277.0	PVC / Nylon
62962	6 G 12	3.31	13.4	182.2	317.0	PVC / Nylon
62963	7 G 12	3.31	13.4	212.6	357.0	PVC / Nylon
62964	9 G 12	3.31	16.4	273.8	484.0	PVC / Nylon
62965	12 G 12	3.31	18.3	364.0	625.0	PVC / Nylon
62966	16 G 12	3.31	20.1	488.1	789.0	PVC / Nylon
11009458	18 G 12	3.31	22.3	549.6	936.0	PVC / Nylon
62967	19 G 12	3.31	22.3	580.1	982.0	PVC / Nylon
62968	20 G 12	3.31	23.3	610.6	1024.0	PVC / Nylon
62969	25 G 12	3.31	25.8	764.2	1257.0	PVC / Nylon
62970	2 x 10	5.26	11.8	97.3	195.0	PVC / Nylon
62971	3 G 10	5.26	12.5	145.7	260.0	PVC / Nylon
62972	4 G 10	5.26	14.4	194.6	360.0	PVC / Nylon
62973	5 G 10	5.26	15.8	243.9	435.0	PVC / Nylon

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Part no.	No. cores x AWG-No.	Cross-sec. mm ² , approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.	Core insulation
62974	7 G 10	5.26	17.1	342.2	570.0	PVC / Nylon
62975	9 G 10	5.26	19.9	440.6	716.0	PVC / Nylon
62976	12 G 10	5.26	23.3	588.4	981.0	PVC / Nylon
11009459	18 G 10	5.26	27.2	884.2	1415.0	PVC / Nylon
62977	19 G 10	5.26	27.2	933.3	1452.0	PVC / Nylon
11009460	25 G 10	5.26	31.6	1229.6	1833.0	PVC / Nylon
11009461	3 G 8	8.37	16.8	233.7	475.0	PVC / Nylon
62978	4 G 8	8.37	18.4	312.1	582.0	PVC / Nylon
62979	5 G 8	8.37	20.2	390.6	711.0	PVC / Nylon
710466	7 G 8	8.37	23.0	547.6	957.0	PVC / Nylon
62980	3 G 6	13.3	19.5	368.6	634.0	PVC / Nylon
62981	4 G 6	13.3	22.4	492.1	871.0	PVC / Nylon
62982	5 G 6	13.3	24.5	616.0	1046.0	PVC / Nylon
63134	7 G 6	13.3	26.7	863.6	1391.0	PVC / Nylon
62983	3 G 4	21.2	24.6	589.0	1031.0	PVC / Nylon
62984	4 G 4	21.2	27.0	786.1	1265.0	PVC / Nylon
62985	5 G 4	21.2	29.7	984.1	1579.0	PVC / Nylon
62986	3 G 2	33.6	26.7	926.2	1399.0	PVC / Nylon
62987	4 G 2	33.6	29.4	1236.1	1845.0	PVC / Nylon
62988	5 G 2	33.6	32.3	1547.5	2292.0	PVC / Nylon
62989	4 G 1	42.4	35.6	1554.3	2421.0	PVC / Nylon
62990	4 G 1/0	53.5	38.1	1962.1	2697.0	XLPE
62991	4 G 2/0	67.4	40.9	2469.5	3297.0	XLPE
62992	4 G 3/0	85	46.1	3112.3	4037.0	XLPE
62993	4 G 4/0	107	48.4	3856.6	5104.0	XLPE
62994	4 G 250 kcmil	126.7	52.4	4591.2	6066.0	XLPE
62995	4 G 350 kcmil	177.3	58.8	6558.4	8291.0	XLPE
62996	4 G 500 kcmil	253.3	66.8	9182.3	11240.0	XLPE

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