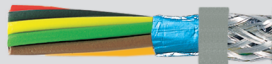


TRAYCONTROL® 300-C

flexible, oil resistant, screened, EMC-preferred type, NFPA 79



HELUKABEL TRAYCONTROL 300-C 24AWG/0,241 mm² 6C/62737 CE

Technical data

- Flexible screened PVC data and control cable
- **Temperature range**
-25°C to +105°C
- **Nominal voltage**
300 V
- **Test voltage**
2000 V
- **Minimum bending radius**
flexing 6x cable Ø
- **Coupling resistance**
max. 250 Ohm/km
- **Radiation resistance**
up to 80x10⁶ cJ/kg (up to 80 Mrad)

Cable structure

- Tinned copper conductor, fine wire with AWG dimensions
- Core insulation of special PVC (AWG 22 - AWG 16 with transparent nylon skin)
- Core identification to international colour code
- Cores stranded in layers with optimal lay length
- 1. Screen with special aluminium foil
- Drain wire
- 2. Tinned copper braided screen, approx. 85% coverage
- Separator
- Outer sheath of special PVC
- Sheath colour: grey (RAL 7001)
- With length marking in feet

Properties

- The materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

Tests

- Self-extinguishing and flame retardant acc. to CSA FT4
- **UL (AWG 22 - AWG 16):**
PLTC-ER, ITC-ER, Type CM, NFPA 79, OIL RES I & II, Class I Div. 2, NEC Art. 501, 725, 760 & 800, AWM 2517
- **UL (AWG 24 - AWG 28):**
CM, AWM 2517, rated OIL RES I & II, NEC Art. 725, 760 & 800, NFPA 79
- **CSA:**
CSA CMG FT4, AWM I/II A/B FT4

Note

Advantages

- Highly flexible, easy to install
- Oil resistant to OIL RES I & II

Available on request

- PUR or TPE outer sheath
- Sheath colour to suit customer requirement

Application

HELUKABEL® TRAYCONTROL® 300-C is a screened, multi-core PVC data and control cable. Cross-sections with PLTC-ER and ITC-ER approval suitable for open, unprotected installation in cable trays to the machine; their outstanding oil resistance (OIL RES I & II) makes them ideally suited as connecting and joining cables and also for control, signal and measuring systems in industrial plants. The flexible cable structure facilitates installation inside and outside of machines and switch cabinets. The double-screening with aluminium foil (100% coverage) and copper braid (approx. 85% coverage) guarantee superior EMC protection. Applications: tool machines, control panels, measuring devices, production automation, cable ducts, renewable energies.

EMC = Electromagnetic compatibility

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

CE = Product conforms with Low-Voltage Directive 2014/35/EU.

Part no.	Cross-section mm ² x AWG-No.	No. cores	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	Part no.	Cross-section mm ² x AWG-No.	No. cores	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
62710	0,093	2 x 28	4,2	6,0	16,0	62734	0,241	2 x 24	4,7	15,0	30,0
62711	0,093	3 x 28	4,3	7,0	22,0	62735	0,241	3 x 24	4,9	16,0	33,0
62712	0,093	4 x 28	4,6	9,0	27,0	62736	0,241	4 x 24	5,3	19,0	37,0
62713	0,093	6 x 28	5,0	12,0	34,0	62737	0,241	6 x 24	6,2	27,0	48,0
62714	0,093	8 x 28	5,5	15,0	37,0	62738	0,241	8 x 24	6,6	31,0	57,0
62715	0,093	10 x 28	6,0	18,0	43,0	62739	0,241	10 x 24	7,3	39,0	67,0
62716	0,093	15 x 28	6,7	24,0	52,0	62740	0,241	15 x 24	8,2	51,0	85,0
62717	0,093	20 x 28	7,5	30,0	67,0	62741	0,241	20 x 24	8,8	64,0	106,0
62718	0,093	25 x 28	8,1	37,0	79,0	62742	0,241	25 x 24	9,6	77,0	128,0
62719	0,093	30 x 28	8,5	43,0	88,0	62743	0,241	30 x 24	10,6	92,0	155,0
62720	0,093	40 x 28	9,3	54,0	112,0	62744	0,241	40 x 24	11,6	118,0	206,0
62721	0,093	50 x 28	10,7	67,0	131,0	62745	0,241	50 x 24	12,9	148,0	249,0
62722	0,154	2 x 26	4,4	9,0	24,0	62746	0,382	2 x 22	6,9	19,0	34,0
62723	0,154	3 x 26	4,5	10,0	27,0	62747	0,382	3 x 22	7,2	22,0	40,0
62724	0,154	4 x 26	4,8	12,0	31,0	62748	0,382	4 x 22	7,7	27,0	46,0
62725	0,154	6 x 26	5,5	16,0	39,0	62749	0,382	6 x 22	8,8	34,0	60,0
62726	0,154	8 x 26	5,8	19,0	43,0	62750	0,382	8 x 22	9,3	45,0	72,0
62727	0,154	10 x 26	6,5	24,0	51,0	62751	0,382	10 x 22	10,6	69,0	85,0
62728	0,154	15 x 26	7,4	31,0	66,0	62752	0,382	15 x 22	11,9	77,0	115,0
62729	0,154	20 x 26	8,0	40,0	79,0	62753	0,382	20 x 22	13,0	92,0	140,0
62730	0,154	25 x 26	8,7	49,0	92,0	62754	0,382	25 x 22	15,0	121,0	176,0
62731	0,154	30 x 26	9,1	57,0	110,0	62755	0,382	30 x 22	15,9	139,0	210,0
62732	0,154	40 x 26	10,5	72,0	136,0	62756	0,382	40 x 22	17,7	177,0	273,0
62733	0,154	50 x 26	11,6	88,0	165,0	62757	0,382	50 x 22	19,7	215,0	331,0

Continuation ▶

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Part no.	Cross-section mm ² x AWG-No.	No.cores	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
62758	0,616	2 x 20	7,4	28,0	73,0
62759	0,616	3 x 20	7,7	34,0	77,0
62760	0,616	4 x 20	8,3	40,0	91,0
62761	0,616	6 x 20	9,4	54,0	118,0
62762	0,616	8 x 20	10,1	70,0	158,0
62763	0,616	10 x 20	11,5	83,0	173,0
62764	0,616	15 x 20	13,0	119,0	218,0
62765	0,616	20 x 20	15,1	130,0	298,0
62766	0,616	25 x 20	16,5	186,0	401,0
62767	0,616	30 x 20	17,5	224,0	477,0
62768	0,616	40 x 20	19,0	288,0	623,0
62769	0,616	50 x 20	22,6	337,0	752,0
62770	0,963	2 x 18	7,8	37,0	80,0
62771	0,963	3 x 18	8,2	49,0	86,0
62772	0,963	4 x 18	8,8	58,0	101,0
62773	0,963	6 x 18	10,1	82,0	130,0
62774	0,963	8 x 18	10,8	100,0	168,0
62775	0,963	10 x 18	12,4	124,0	226,0

Part no.	Cross-section mm ² x AWG-No.	No.cores	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
62776	0,963	15 x 18	14,9	180,0	295,0
62777	0,963	20 x 18	16,3	234,0	386,0
62778	0,963	25 x 18	18,0	277,0	462,0
62779	0,963	30 x 18	18,9	323,0	590,0
62780	0,963	40 x 18	21,2	416,0	773,0
62781	0,963	50 x 18	24,7	508,0	958,0
62782	1,31	2 x 16	8,4	51,0	110,0
62783	1,31	3 x 16	8,7	63,0	116,0
62784	1,31	4 x 16	9,4	76,0	139,0
62785	1,31	6 x 16	10,9	104,0	195,0
62786	1,31	8 x 16	11,7	134,0	283,0
62787	1,31	10 x 16	13,4	168,0	316,0
62788	1,31	15 x 16	16,0	234,0	410,0
62789	1,31	20 x 16	17,8	301,0	551,0
62790	1,31	25 x 16	19,5	367,0	675,0
62791	1,31	30 x 16	20,6	428,0	794,0
62792	1,31	40 x 16	24,0	550,0	1033,0
62793	1,31	50 x 16	26,8	669,0	1274,0

Dimensions and specifications may be changed without prior notice. (RN02)