

TRAYCONTROL® 300-C flexible, oil-resistant, shielded, EMC-preferred type, exposed run PLTC-ER, ITC-ER, NFPA 79



Technical data

- Shielded, PVC signal and control cable
- **Temperature range**
flexing +5°C to +50°C
static -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

- Finely stranded, tinned copper acc. to AWG standards
- Special PVC conductor insulation (22-16 AWG with transparent nylon coating)
- Conductor identification to international color code
- Conductors stranded in layers with optimal lay length
- 1. Special aluminum foil shield
- Drain wire
- 2. Braided, tinned copper shield, approx. 85% coverage
- 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 (22-16 AWG)
- Direct burial rated (18-16 AWG)
- Resistant to cleaning and disinfecting agents acc. to



Tests

- **UL (28-24 AWG)**
AWM 2517, CM, NFPA 79, NEC Art. 725, 760 & 800, -40°C Cold Bend
- **UL (22-16 AWG)**
PLTC-ER, ITC-ER, AWM 2517, CM, NFPA 79, Class I Div. 2 per NEC Art. 501, NEC Art. 725, 760 & 800, Oil Res I/II, -40°C Cold Bend
- **CSA:**
CMG FT4, C22.2 No. 210 - AWM I/II A/B FT4

Note

Advantages

- Highly flexible, easy to install
- Rated Oil Res I/II

Available on request

- PUR or TPE outer jacket
- Jacket color to customer requirements

Application

TRAYCONTROL® 300-C is a shielded, multi-conductor PVC signal and control cable. PLTC-ER and ITC-ER approvals make it suitable for open, unprotected installation in cable trays to the machine. Their outstanding oil resistance (Oil Res I/II) makes them ideally suited as a connecting cable and also for control, signal and measuring systems in industrial plants. A flexible cable structure facilitates installation inside and outside of machines and switch cabinets. The double-shielding with aluminum foil (100% coverage) and copper braid (approx. 85% coverage) guarantee superior EMC protection. Applications: machine tools, control panels, control and instrumentation technology, production automation, cable ducts, and renewable energy.

EMC = Electromagnetic compatibility

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

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

Part no.	Cross section mm²	No. conductors x AWG No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
62710	0,099	2 x 28	4,2	8,6	27,0
62711	0,099	3 x 28	4,3	9,4	28,0
62712	0,099	4 x 28	4,6	11,5	33,0
62713	0,099	6 x 28	5,1	14,4	39,0
62714	0,099	8 x 28	5,5	18,9	46,0
62715	0,099	10 x 28	6,1	22,4	55,0
62716	0,099	15 x 28	6,7	28,6	68,0
62717	0,099	20 x 28	7,5	34,7	85,0
62718	0,099	25 x 28	8,1	41,1	98,0
62719	0,099	30 x 28	8,5	46,1	109,0
62720	0,099	40 x 28	9,3	58,3	134,0
62721	0,099	50 x 28	10,7	68,6	170,0
62722	0,154	2 x 26	4,4	10,4	30,0
62723	0,154	3 x 26	4,5	12,2	33,0
62724	0,154	4 x 26	4,8	14,3	37,0
62725	0,154	6 x 26	5,5	21,3	49,0
62726	0,154	8 x 26	5,8	25,0	55,0
62727	0,154	10 x 26	6,5	30,8	68,0

Part no.	Cross section mm²	No. conductors x AWG No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
62728	0,154	15 x 26	7,4	39,9	88,0
62729	0,154	20 x 26	8,0	49,1	104,0
62730	0,154	25 x 26	8,7	58,6	122,0
62731	0,154	30 x 26	9,1	66,3	137,0
62732	0,154	40 x 26	10,5	83,2	180,0
62733	0,154	50 x 26	11,6	101,0	214,0
62734	0,241	2 x 24	4,7	14,0	34,0
62735	0,241	3 x 24	4,9	16,2	39,0
62736	0,241	4 x 24	5,3	21,6	52,0
62737	0,241	6 x 24	6,2	28,5	67,0
62738	0,241	8 x 24	6,6	34,0	77,0
62739	0,241	10 x 24	7,3	41,2	89,0
62740	0,241	15 x 24	8,2	55,3	115,0
62741	0,241	20 x 24	8,8	68,7	132,0
62742	0,241	25 x 24	9,6	82,5	156,0
62743	0,241	30 x 24	10,6	94,5	189,0
62744	0,241	40 x 24	11,6	120,7	241,0
62745	0,241	50 x 24	12,9	146,3	243,0

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Part no.	Cross section mm ²	No. conductors x AWG No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
62746	0,382	2 x 22	6,9	24,2	68,0
62747	0,382	3 x 22	7,2	28,7	80,0
62748	0,382	4 x 22	7,7	34,1	94,0
62749	0,382	6 x 22	8,8	45,7	119,0
62750	0,382	8 x 22	9,3	53,4	141,0
62751	0,382	10 x 22	10,5	65,4	165,0
62752	0,382	15 x 22	11,9	87,8	211,0
62753	0,382	20 x 22	13,0	108,1	249,0
62754	0,382	25 x 22	15,1	130,6	324,0
62755	0,382	30 x 22	15,9	150,3	365,0
62756	0,382	40 x 22	17,7	207,4	469,0
62757	0,382	50 x 22	19,7	247,8	558,0
62758	0,616	2 x 20	7,4	32,1	83,0
62759	0,616	3 x 20	7,7	38,9	94,0
62760	0,616	4 x 20	8,3	46,7	112,0
62761	0,616	6 x 20	9,4	62,0	141,0
62762	0,616	8 x 20	10,1	77,2	171,0
62763	0,616	10 x 20	11,5	91,0	204,0
62764	0,616	15 x 20	12,9	119,0	260,0
62765	0,616	20 x 20	15,1	156,9	359,0
62766	0,616	25 x 20	16,5	189,6	424,0
62767	0,616	30 x 20	17,5	233,0	476,0
62768	0,616	40 x 20	19,3	297,8	594,0
62769	0,616	50 x 20	22,6	364,3	769,0

Part no.	Cross section mm ²	No. conductors x AWG No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
62770	0,963	2 x 18	7,8	43,7	100,0
62771	0,963	3 x 18	8,2	54,6	118,0
62772	0,963	4 x 18	8,8	65,3	138,0
62773	0,963	6 x 18	10,1	87,5	179,0
62774	0,963	8 x 18	10,8	108,2	213,0
62775	0,963	10 x 18	12,4	131,6	256,0
62776	0,963	15 x 18	14,9	182,9	372,0
62777	0,963	20 x 18	16,3	232,6	442,0
62778	0,963	25 x 18	18,0	297,8	542,0
62779	0,963	30 x 18	18,9	344,4	618,0
62780	0,963	40 x 18	21,2	465,2	799,0
62781	0,963	50 x 18	24,7	569,0	1024,0
62782	1,31	2 x 16	8,4	54,9	116,0
62783	1,31	3 x 16	8,7	68,2	131,0
62784	1,31	4 x 16	9,4	83,1	164,0
62785	1,31	6 x 16	10,9	112,9	205,0
62786	1,31	8 x 16	11,7	142,8	256,0
62787	1,31	10 x 16	13,4	170,7	299,0
62788	1,31	15 x 16	16,1	237,9	433,0
62789	1,31	20 x 16	17,8	319,0	554,0
62790	1,31	25 x 16	19,5	384,7	658,0
62791	1,31	30 x 16	20,6	450,2	756,0
62792	1,31	40 x 16	24,0	583,4	1015,0
62793	1,31	50 x 16	26,8	715,3	1223,0

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