

TRAYCONTROL® 300 TP twisted pair, flexible, oil-resistant, exposed run PLTC-ER, ITC-ER, NFPA 79



Technical data

- 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
- **Radiation resistance**
up to 80x10⁶ cJ/kg (up to 80 Mrad)

Cable structure

- Finely stranded, tinned copper acc. to AWG standards
- Conductor insulation:
Special PVC (28-24 AWG)
Special PVC with transparent nylon coating (22-16 AWG)
- Conductor pair identification to international color code
- Conductors stranded in pairs with optimal lay length
- Pairs stranded in layers with optimal lay length
- 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 (22-18 AWG)
- Direct burial rated (18 AWG)
- Resistant to cleaning and disinfecting agents acc. to ECOLAB®

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, 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

Application

TRAYCONTROL® 300 TP is a twisted pair signal and control cable. PLTC-ER and ITC-ER approvals make it suitable for open, unprotected installation from 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. Applications: machine tools, control panels, control and instrumentation technology, production automation, cable ducts, and renewable energy.

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

Part no.	Cross section mm ²	No. pairs x No. conductors x AWG No.	Outer Ø app. mm	Cu factor per km	Weight app. kg / km
62794	0,154	1 x 2 x 26	4,0	2,8	18,0
62795	0,154	2 x 2 x 26	5,2	5,6	28,0
62796	0,154	3 x 2 x 26	5,5	8,4	34,0
62797	0,154	4 x 2 x 26	5,9	11,2	40,0
62798	0,154	5 x 2 x 26	6,4	14,0	48,0
62799	0,154	6 x 2 x 26	6,9	16,8	54,0
62800	0,154	7 x 2 x 26	6,9	19,6	58,0
61928	0,154	8 x 2 x 26	7,6	22,4	70,0
61929	0,154	10 x 2 x 26	8,7	28,0	85,0
61930	0,154	12 x 2 x 26	9,0	33,6	95,0
61931	0,154	14 x 2 x 26	9,4	39,2	106,0
61932	0,154	15 x 2 x 26	10,4	42,0	126,0
61933	0,154	16 x 2 x 26	10,4	44,8	131,0
61934	0,154	18 x 2 x 26	10,9	50,4	143,0
61935	0,154	20 x 2 x 26	11,4	56,0	155,0
61936	0,154	22 x 2 x 26	11,9	61,6	167,0
61937	0,154	24 x 2 x 26	12,5	67,2	180,0
61938	0,154	25 x 2 x 26	12,5	70,0	185,0

Part no.	Cross section mm ²	No. pairs x No. conductors x AWG No.	Outer Ø app. mm	Cu factor per km	Weight app. kg / km
61939	0,241	1 x 2 x 24	4,3	4,4	22,0
61940	0,241	2 x 2 x 24	5,7	8,9	34,0
61941	0,241	3 x 2 x 24	6,0	13,3	42,0
61942	0,241	4 x 2 x 24	6,5	17,7	51,0
61943	0,241	5 x 2 x 24	7,0	22,2	60,0
61944	0,241	6 x 2 x 24	7,8	26,6	74,0
61945	0,241	7 x 2 x 24	7,8	31,0	80,0
61946	0,241	8 x 2 x 24	8,4	35,5	89,0
61947	0,241	10 x 2 x 24	9,7	44,3	109,0
61948	0,241	12 x 2 x 24	10,6	53,2	137,0
61949	0,241	14 x 2 x 24	11,0	62,1	153,0
61950	0,241	15 x 2 x 24	11,6	66,5	164,0
61951	0,241	16 x 2 x 24	11,6	70,9	170,0
61952	0,241	18 x 2 x 24	12,2	79,8	186,0
61953	0,241	20 x 2 x 24	12,8	88,6	202,0
61954	0,241	22 x 2 x 24	13,3	97,5	219,0
61955	0,241	24 x 2 x 24	14,0	106,4	237,0
61956	0,241	25 x 2 x 24	14,0	110,8	243,0

Continuation ▶

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Part no.	Cross section mm²	No. pairs x No. conductors x AWG No.	Outer Ø app. mm	Cu factor per km	Weight app. kg / km
61957	0,382	1 x 2 x 22	6,5	7,0	46,0
61958	0,382	2 x 2 x 22	8,8	14,1	74,0
61959	0,382	3 x 2 x 22	9,2	21,1	94,0
61960	0,382	4 x 2 x 22	10,0	28,2	110,0
61961	0,382	5 x 2 x 22	10,9	35,2	128,0
61962	0,382	6 x 2 x 22	11,8	42,3	147,0
61963	0,382	7 x 2 x 22	11,8	49,3	161,0
61964	0,382	8 x 2 x 22	12,7	56,3	180,0
61965	0,382	10 x 2 x 22	15,6	70,4	251,0
61966	0,382	12 x 2 x 22	16,1	84,5	281,0
61967	0,382	14 x 2 x 22	16,9	98,6	315,0
61968	0,382	15 x 2 x 22	17,8	105,6	336,0
61969	0,382	16 x 2 x 22	17,8	112,7	350,0
61970	0,382	18 x 2 x 22	18,6	126,8	384,0
61971	0,382	20 x 2 x 22	19,6	140,9	418,0
61972	0,382	22 x 2 x 22	20,5	154,9	452,0
61973	0,382	24 x 2 x 22	22,7	169,0	542,0
61974	0,382	25 x 2 x 22	22,7	176,1	557,0
61975	0,616	1 x 2 x 20	6,9	11,2	54,0
61976	0,616	2 x 2 x 20	9,6	22,5	89,0
61977	0,616	3 x 2 x 20	10,1	33,7	126,0

Part no.	Cross section mm²	No. pairs x No. conductors x AWG No.	Outer Ø app. mm	Cu factor per km	Weight app. kg / km
61978	0,616	4 x 2 x 20	10,9	44,9	149,0
61979	0,616	5 x 2 x 20	11,9	56,2	158,0
61980	0,616	6 x 2 x 20	12,9	67,4	183,0
61981	0,616	7 x 2 x 20	12,9	78,6	201,0
61982	0,616	8 x 2 x 20	14,8	89,9	254,0
61983	0,616	10 x 2 x 20	17,1	112,3	311,0
61984	0,616	12 x 2 x 20	17,7	134,8	351,0
61985	0,616	14 x 2 x 20	18,5	157,3	394,0
61986	0,616	15 x 2 x 20	19,5	168,5	421,0
61987	0,616	16 x 2 x 20	19,5	179,7	439,0
61988	0,616	18 x 2 x 20	20,5	202,2	484,0
61989	0,616	20 x 2 x 20	22,1	224,7	555,0
61990	0,616	22 x 2 x 20	23,1	247,1	601,0
61991	0,616	24 x 2 x 20	24,4	269,6	650,0
61992	0,616	25 x 2 x 20	24,4	280,8	668,0
61993	0,963	1 x 2 x 18	7,4	18,0	65,0
61994	0,963	2 x 2 x 18	10,3	36,1	110,0
61995	0,963	3 x 2 x 18	10,8	54,1	138,0
61996	0,963	6 x 2 x 18	14,9	108,2	268,0
61997	0,963	9 x 2 x 18	17,2	162,3	335,0
61998	0,963	15 x 2 x 18	21,3	270,5	554,0

Dimensions and specifications may be changed without prior notice.