

TRAYCONTROL® 550 TPE flexible, oil-resistant, exposed run



TC-ER, PLTC-ER, ITC-ER, NFPA 79



Technical data

- TPE 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

Cable structure

- Finely stranded (Cl. K), bare copper acc. to AWG standards
- Special PVC conductor insulation with transparent nylon coating
- Blue conductors with continuous white numbering & 1 GN-YE conductor. When 3 conductors or more, second conductor is blue/white neutral.
- Conductors stranded in layers with optimal lay length
- Separator
- Special TPE 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
- Direct burial rated
- Resistant to cleaning and disinfecting agents acc. to ECOLAB®

Tests

- **UL:**
TC-ER (1277), WTTC (2277) & DP-1 - (18 AWG-500 kcmil), ITC-ER & PLTC-ER - (20-12 AWG), 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

Available on request

- Red, black, yellow or orange conductors
- Black outer jacket
- Shielded variant - consult factory as minimum length required

Application

TRAYCONTROL® 550 TPE is a flexible, oil-resistant control and power cable. The special combination of TC-ER, PLTC-ER and ITC-ER allows this cable to be used as a connecting cable for AC, DC or control wiring in accordance with NFPA 79. Approved for open, unprotected installation in cable trays to the machine. Its outstanding oil resistance (Oil Res I/II) guarantees a long service life for industrial applications in dry, damp and wet environments. Recommended applications: machine tools, production lines, and automotive industry manufacturing operations. Only cables with 3 or more conductors are rated for exposed run (ER).

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	Cu factor per km	Weight app. kg / km
11009645	0,507	2 x 20	6,7	9,4	52,0
11009646	0,507	3 x 20	7,0	14,1	63,0
11009647	0,507	4 x 20	7,5	18,8	74,0
11009648	0,507	5 x 20	8,1	23,5	86,0
11009649	0,507	7 x 20	8,7	32,8	107,0
11009650	0,507	9 x 20	10,1	42,2	131,0
11009651	0,507	12 x 20	11,1	56,3	162,0
11009652	0,507	18 x 20	12,9	84,4	223,0
11009653	0,507	25 x 20	15,7	117,3	324,0
11009654	0,824	2 x 18	7,1	15,0	61,0
709962	0,824	3 x 18	7,4	22,2	74,0
709963	0,824	4 x 18	8,1	29,6	91,0
709964	0,824	5 x 18	8,7	37,1	106,0
709965	0,824	7 x 18	9,5	52,0	134,0
709966	0,824	9 x 18	10,8	66,9	165,0
709967	0,824	10 x 18	11,6	74,4	183,0
709968	0,824	12 x 18	12,0	89,4	207,0
709969	0,824	15 x 18	13,2	111,7	250,0
709970	0,824	16 x 18	13,2	119,2	262,0
709971	0,824	18 x 18	14,7	134,1	318,0
709972	0,824	19 x 18	14,7	141,5	330,0
709973	0,824	25 x 18	17,0	186,5	418,0
11009655	0,824	27 x 18	17,2	202,5	443,0
11009656	0,824	34 x 18	19,1	255,0	540,0
11009657	0,824	37 x 18	19,1	277,3	574,0
11009658	0,824	41 x 18	20,5	307,4	632,0
11009659	0,824	50 x 18	23,3	374,9	807,0
11009660	0,824	61 x 18	24,6	457,4	946,0

Part no.	Cross section mm²	No. conductors x AWG No.	Outer Ø app. mm	Cu factor per km	Weight app. kg / km
11009661	1,31	2 x 16	7,8	24,4	76,0
709974	1,31	3 x 16	8,2	36,0	95,0
709975	1,31	4 x 16	8,8	48,1	118,0
709976	1,31	5 x 16	9,6	60,4	138,0
11009662	1,31	6 x 16	10,4	73,1	161,0
709977	1,31	7 x 16	10,4	84,5	179,0
11009663	1,31	8 x 16	11,2	97,5	201,0
709978	1,31	9 x 16	12,0	108,8	223,0
709979	1,31	10 x 16	13,0	121,0	246,0
709980	1,31	12 x 16	13,4	145,2	283,0
11009664	1,31	14 x 16	14,9	170,6	351,0
709981	1,31	15 x 16	15,6	181,5	374,0
709982	1,31	16 x 16	15,6	193,7	391,0
709983	1,31	18 x 16	16,4	218,1	432,0
709984	1,31	19 x 16	16,4	230,3	448,0
11009665	1,31	20 x 16	17,1	243,8	472,0
709985	1,31	25 x 16	18,9	303,3	571,0
11009666	1,31	27 x 16	19,3	329,1	609,0
11009667	1,31	30 x 16	20,0	365,7	665,0
11009668	1,31	34 x 16	22,5	414,4	807,0
11009669	1,31	40 x 16	23,2	487,6	911,0
11009670	1,31	41 x 16	24,0	499,7	938,0
11009671	1,31	50 x 16	26,0	609,4	1112,0
11009672	1,31	61 x 16	27,5	743,5	1314,0
11009673	2,08	2 x 14	8,8	38,4	100,0
710468	2,08	3 x 14	9,2	57,7	128,0
11009674	2,08	4 x 14	10,1	76,9	159,0
11009675	2,08	5 x 14	10,9	96,1	190,0

Continuation ►

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Part no.	Cross section mm²	No. conductors x AWG No.	Outer Ø app. mm	Cu factor per km	Weight app. kg / km
11009676	2,08	6 x 14	11,9	115,3	222,0
11009677	2,08	7 x 14	11,9	134,5	247,0
11009678	2,08	9 x 14	14,7	173,0	339,0
11009679	2,08	10 x 14	15,8	192,2	379,0
11009680	2,08	12 x 14	16,4	230,6	430,0
11009681	2,08	16 x 14	18,0	307,5	545,0
11009682	2,08	18 x 14	18,9	345,9	604,0
11009683	2,08	19 x 14	18,9	365,1	629,0
11009684	2,08	25 x 14	22,8	480,4	863,0
11009685	3,31	2 x 12	9,7	63,1	132,0
11009686	3,31	3 x 12	10,2	94,7	174,0
11009687	3,31	4 x 12	11,2	126,3	220,0
11009688	3,31	5 x 12	12,2	157,9	265,0
11009689	3,31	6 x 12	13,3	189,4	311,0
11009690	3,31	7 x 12	13,3	221,0	350,0
11009691	3,31	9 x 12	16,4	284,2	475,0
11009692	3,31	12 x 12	18,3	378,9	606,0
11009693	3,31	16 x 12	20,1	505,2	778,0
11009694	3,31	18 x 12	21,2	568,3	865,0
11009695	3,31	19 x 12	21,2	599,9	903,0
11009696	3,31	20 x 12	23,3	631,5	1007,0
11009697	3,31	25 x 12	25,8	789,3	1228,0
11009698	5,26	2 x 10	11,8	98,7	190,0
11009699	5,26	3 x 10	12,5	148,0	256,0
11009700	5,26	4 x 10	14,3	197,3	354,0
11009701	5,26	5 x 10	15,8	246,7	426,0
11009702	5,26	7 x 10	27,1	345,3	560,0

Part no.	Cross section mm²	No. conductors x AWG No.	Outer Ø app. mm	Cu factor per km	Weight app. kg / km
11009703	5,26	9 x 10	19,9	44,0	705,0
11009704	5,26	12 x 10	23,3	592,0	964,0
11009705	5,26	18 x 10	27,2	888,0	1371,0
11009706	5,26	19 x 10	27,2	937,3	1432,0
11009707	5,26	25 x 10	31,6	1233,3	1847,0
11009708	8,37	3 x 8	17,3	236,8	442,0
11009709	8,37	4 x 8	19,2	315,7	563,0
11009710	8,37	5 x 8	21,0	394,7	682,0
11009711	8,37	7 x 8	23,9	552,5	961,0
11009712	13,3	3 x 6	20,2	382,5	621,0
11009713	13,3	4 x 6	22,3	510,0	882,0
11009714	13,3	5 x 6	24,5	637,5	1098,0
11009715	13,3	7 x 6	26,7	892,5	1362,0
11009716	21,2	3 x 4	24,6	581,1	1013,0
11009717	21,2	4 x 4	26,9	774,8	1298,0
11009718	21,2	5 x 4	29,9	968,4	1640,0
11009719	33,6	3 x 2	28,5	988,2	1518,0
11009720	33,6	4 x 2	31,4	1317,6	1954,0
11009721	33,6	5 x 2	34,6	1647,0	2432,0
11009722	42,4	4 x 1	35,6	1621,1	2433,0
11009723	53,5	4 x 1/0	36,4	1973,3	2820,0
11009724	67,4	4 x 2/0	39,2	2519,8	3460,0
11009725	84,7	4 x 3/0	41,9	3157,3	4182,0
11009726	107,0	4 x 4/0	47,4	3977,0	5313,0
11009727	127,0	4 x 250 kcmil	52,9	4715,9	6250,0
11009728	175,0	4 x 350 kcmil	59,4	6552,6	8393,0
11009729	256,0	4 x 500 kcmil	71,7	9604,8	11994,0

Dimensions and specifications may be changed without prior notice.