

TECHNOTRONIK LIYYCY**CONTROL CABLES FOR INDUSTRIAL ELECTRONIC APPLICATIONS****APPLICATIONS**

TECHNOTRONIK LIYYCY are overall shielded control cables intended for control and instrumentation circuits, for signal, monitoring and data processing systems and for analogue or digital data transmission, all for industrial electronic applications.

To achieve high analogue or digital data transmission performance the cable is protected against external electromagnetic interferences by an overall shield.

Cable inner sheath offers enhanced protection against mechanical damage.

The cables can also be used for power supply to small auxiliary devices on condition that current-carrying capacity limit (see our *Technical Guide*) is not exceeded.

The cables are suitable for indoor installations connecting fixed and movable equipment.

Cable outer sheath is oil-resistant.

CONSTRUCTION

- flexible, multiwire conductors, stranded of bare annealed copper wires (tin-plated on request), meeting requirements of class 5 per PN-EN 60228,
- PVC insulation - identification colour code in accordance with DIN VDE 47100,
- insulated conductors laid-up in layers,
- inner PVC sheath,
- tinned copper wire braid shield of effective density coverage,
- PVC cable sheath, grey RAL 7001, other colours also available.

AVAILABLE UPON REQUEST

TECHNOTRONIK LIYYCY-O - cables designed for frequent contact with petroleum products, as in petrol stations and stores, where engine fuels and lubricants are pumped or handled. The cable sheath is then made of special PVC compound meeting oil resistance requirements of Polish standard PN-EN 60811-404.

TECHNOTRONIK LIYYC11Y - polyurethane sheathed cables of enhanced protection against mechanical damage, particularly to abrasion and tear, also resistant to oils, petrol, bacteria and ultraviolet radiation.

TECHNOTRONIK LIHHCH - halogen free cables, applied when higher safety in case of fire is required. The cables are flame retardant, their smoke emission in fire is low and released gases are not corrosive.

TECHNOTRONIK IB-LIYYCY - specially designed intrinsically safe cable.

TECHNOTRONIK LIYYCY

CHARACTERISTICS

Conductor cross-section	mm ²	0.5	0.75	1.0	1.5
Operating voltage, peak value	V	500	500	500	500
Voltage test	V rms	1500	1500	1500	1500
DC conductor resistance at 20°C, maximum	Ω/km	39.0	26.0	19.5	13.3
Capacitance between conductors at 1 kHz, appr.	nF/km	110	120	130	130

Operating voltage U_o/U 300/300 V
Insulation resistance, minimum 20 MΩ·km
Inductance, approximate 0.7 mH/km
Impedance, approximate 80 Ω

Operating temperature range
for fixed installation from - 30 to + 80°C
for movable installation from - 5 to + 70°C
Minimum bending radius 10 x cable diameter
Cable combustibility flame retardant
Combustibility tests PN-EN 60332-1-2, IEC 60332-1-2
Reference standards DIN VDE 0812, DIN VDE 0814

CE = the cable meets requirements of the low voltage directive 2014/35/EU

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²	mm	kg/km	kg/km
0171 016	1 x 0,5	4.4	11.4	29
0171 009	2 x 0,5	6.1	19.3	49
0171 010	3 x 0,5	6.3	24.4	57
0171 011	4 x 0,5	6.7	30.0	66
0171 017	5 x 0,5	7.2	35.8	78
0171 018	6 x 0,5	7.8	45.4	93
0171 019	7 x 0,5	7.8	50.2	96
0171 020	8 x 0,5	8.2	56.1	107
0171 021	10 x 0,5	9.7	68.5	135
0171 022	12 x 0,5	9.9	79.3	149
0171 023	16 x 0,5	10.8	100.2	182
0171 024	24 x 0,5	13.0	143.7	252
0171 025	25 x 0,5	13.2	149.0	267
0171 026	27 x 0,5	13.2	158.6	272
0171 027	37 x 0,5	14.9	217.0	358
0171 028	40 x 0,5	15.3	232.6	382
0171 029	48 x 0,5	16.6	275.0	441
0171 030	1 x 0,75	4.5	15.3	33
0171 006	2 x 0,75	6.5	24.8	57
0171 007	3 x 0,75	6.7	32.4	66
0171 012	4 x 0,75	7.2	40.6	79
0171 031	5 x 0,75	7.8	52.6	97
0171 032	6 x 0,75	8.3	61.1	111
0171 033	7 x 0,75	8.3	68.3	115
0171 034	8 x 0,75	8.8	76.8	130
0171 035	10 x 0,75	10.4	94.3	163
0171 004	12 x 0,75	10.7	109.5	182
0171 036	16 x 0,75	11.8	140.6	230
0171 037	24 x 0,75	14.3	204.2	321
0171 038	25 x 0,75	14.5	211.9	339
0171 039	27 x 0,75	14.5	226.3	347

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²	mm	kg/km	kg/km
0171 040	36 x 0,75	16.1	302.6	447
0171 041	37 x 0,75	16.1	309.8	451
0171 042	1 x 1,0	4.7	17.6	37
0171 043	2 x 1,0	6.8	30.2	64
0171 044	3 x 1,0	7.1	40.4	77
0171 001	4 x 1,0	7.7	54.8	95
0171 045	5 x 1,0	8.3	65.9	113
0171 046	6 x 1,0	8.8	76.8	131
0171 047	7 x 1,0	8.8	86.4	136
0171 048	8 x 1,0	9.8	97.5	164
0171 049	10 x 1,0	11.1	120.4	194
0171 050	12 x 1,0	11.4	140.1	217
0171 051	16 x 1,0	12.7	181.3	278
0171 052	24 x 1,0	15.5	271.6	398
0171 053	25 x 1,0	15.8	282.1	422
0171 054	27 x 1,0	15.8	301.3	432
0171 055	1 x 1,5	5.3	22.5	46
0171 056	2 x 1,5	7.7	45.2	84
0171 003	3 x 1,5	8.0	60.3	102
0171 013	4 x 1,5	8.6	76.6	122
0171 057	5 x 1,5	9.7	92.5	155
0171 058	6 x 1,5	10.3	108.5	180
0171 014	7 x 1,5	10.3	122.9	188
0171 008	8 x 1,5	11.0	139.6	216
0171 015	10 x 1,5	12.8	172.0	262
0171 059	12 x 1,5	13.2	201.8	296
0171 060	16 x 1,5	14.6	262.5	379
0171 061	24 x 1,5	17.7	393.6	538
0171 062	25 x 1,5	21.7	470.4	827,0

Other cross-sections and conductor counts available on request.

TECHNOKABEL S.A. reserves the right to change specifications without prior notice.