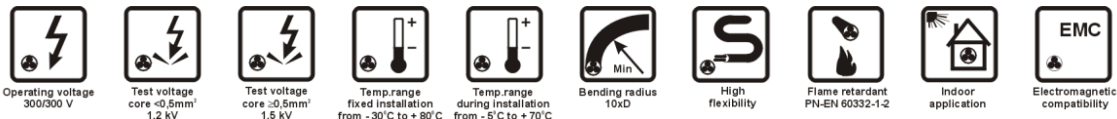


TECHNOTRONIK LIYCY-P**CONTROL CABLES FOR INDUSTRIAL ELECTRONIC APPLICATIONS****APPLICATIONS**

TECHNOTRONIK LIYCY-P are multipair 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.

Paired structure decreases mutual influence between signals transmitted along the cable and reduces influence of outer sources of interference.

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

The cables are designed to offer high flexibility and small outer diameter combined with tensile strength.

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 twisted into pairs,
- pairs laid-up in layers,
- cable core wrapped in polyester tape,
- tinned copper wire braid shield of effective density coverage,
- PVC cable sheath, grey RAL 7001, other colours also available.

AVAILABLE UPON REQUEST

TECHNOTRONIK LIYCEY-P - cables with flexible drain wire stranded of tin-plated annealed copper wires, laid under a shield.

TECHNOTRONIK LIYCY-P-O and **TECHNOTRONIK LIYCEY-P-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 LIYC11Y-P and **TECHNOTRONIK LIYCE11Y-P** - polyurethane sheathed cables of enhanced protection against mechanical damage, particularly to abrasion and tear, also resistant to oils, petrol, bacteria and ultraviolet radiation.

TECHNOTRONIK IB-LIYCY-P - specially designed intrinsically safe cable.

TECHNOTRONIK LIYCY-P

CHARACTERISTICS

Conductor cross-section	mm ²	0.14	0.25	0.34	0.5	0.75	1.0	1.5
Operating voltage peak value	V	350	350	350	500	500	500	500
Voltage test	V rms	1200	1200	1200	1500	1500	1500	1500
DC loop resistance at 20°C, maximum	Ω/km	288.0	158.0	114.0	78.0	52.0	39.0	26.6
Mutual capacitance at 1 kHz, approximate	nF/km	90	100	100	110	120	130	140

Operating voltage U _o /U	300/300 V	Operating temperature range for fixed installation	from - 30 to + 80°C
Insulation resistance, minimum	20 MΩ·km	for movable installation	from - 5 to + 70°C
Inductance, approximate	0.7 mH/km	Minimum bending radius	10 x cable diameter
Impedance, approximate	80 Ω	Cable combustibility	flame retardant
Capacitance unbalance, maximum	300 pF/100 m	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 pairs (x 2) x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²	mm	kg/km	kg/km
0130 003	2 x 2 x 0,14	4.9	13.4	31
0130 004	3 x 2 x 0,14	5.4	16.2	36
0130 007	4 x 2 x 0,14	5.8	20.4	42
0130 008	5 x 2 x 0,14	6.3	23.4	48
0130 009	6 x 2 x 0,14	6.9	27.3	56
0130 012	8 x 2 x 0,14	7.3	33.5	66
0130 014	12 x 2 x 0,14	8.7	51.2	93
0130 016	16 x 2 x 0,14	10.1	64.7	125
0130 105	25 x 2 x 0,14	12.3	94.3	181
0130 019	2 x 2 x 0,25	5.6	19.3	41
0130 021	3 x 2 x 0,25	5.9	24.1	46
0130 022	4 x 2 x 0,25	6.5	29.6	55
0130 023	5 x 2 x 0,25	7.1	35.6	65
0130 024	6 x 2 x 0,25	7.8	45.4	78
0130 025	8 x 2 x 0,25	8.2	56.1	93
0130 027	12 x 2 x 0,25	10.1	79.3	137
0130 106	16 x 2 x 0,25	11.4	101.7	172
0130 020	25 x 2 x 0,25	14.1	150.9	259
0130 065	2 x 2 x 0,34	6.0	22.7	47
0130 066	3 x 2 x 0,34	6.3	29.6	54
0130 067	4 x 2 x 0,34	6.9	37.3	67
0130 068	5 x 2 x 0,34	7.7	49.0	83
0130 102	6 x 2 x 0,34	8.3	57.1	95
0130 107	8 x 2 x 0,34	8.8	71.4	115
0130 108	12 x 2 x 0,34	10.9	101.9	170
0130 070	16 x 2 x 0,34	12.4	131.5	220
0130 029	2 x 2 x 0,5	6.9	30.4	59
0130 030	3 x 2 x 0,5	7.3	40.8	69
0130 031	4 x 2 x 0,5	8.1	55.8	88
0130 032	5 x 2 x 0,5	8.8	67.2	104
0130 033	6 x 2 x 0,5	10.0	79.3	131

Product No.	Number of pairs (x 2) x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²	mm	kg/km	kg/km
0130 035	8 x 2 x 0,5	10.6	99.7	158
0130 038	12 x 2 x 0,5	12.8	143.2	225
0130 098	14 x 2 x 0,5	13.6	164.5	254
0130 039	16 x 2 x 0,5	14.6	185.7	291
0130 044	2 x 2 x 0,75	7.5	41.2	76
0130 045	3 x 2 x 0,75	8.0	60.3	89
0130 046	4 x 2 x 0,75	8.8	76.8	110
0130 047	5 x 2 x 0,75	10.1	93.7	141
0130 048	6 x 2 x 0,75	10.9	110.0	163
0130 049	7 x 2 x 0,75	10.9	124.4	179
0130 050	8 x 2 x 0,75	11.8	140.6	206
0130 052	12 x 2 x 0,75	14.2	203.9	293
0130 077	16 x 2 x 0,75	16.1	273.8	379
0130 053	2 x 2 x 1,0	8.2	56.1	93
0130 054	3 x 2 x 1,0	8.7	76.6	108
0130 055	4 x 2 x 1,0	9.9	98.5	144
0130 056	5 x 2 x 1,0	10.9	119.6	171
0130 057	6 x 2 x 1,0	12.0	141.1	205
0130 058	7 x 2 x 1,0	12.0	160.3	226
0130 074	8 x 2 x 1,0	12.8	181.6	253
0130 095	12 x 2 x 1,0	15.5	271.6	369
0130 061	2 x 2 x 1,5	9.9	79.3	130
0130 062	3 x 2 x 1,5	10.4	108.7	156
0130 092	4 x 2 x 1,5	11.4	140.1	193
0130 063	5 x 2 x 1,5	12.8	172.0	239
0130 093	6 x 2 x 1,5	14.1	203.7	285
0130 103	7 x 2 x 1,5	14.1	232.5	316
0130 109	8 x 2 x 1,5	15.1	270.4	361
0130 104	12 x 2 x 1,5	18.2	394.5	517

Other cross-sections and pair counts available on request.

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