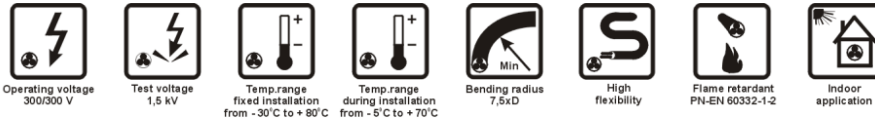


TECHNOTRONIK LiYY-Nr**CONTROL CABLES FOR INDUSTRIAL ELECTRONIC APPLICATIONS****APPLICATIONS**

TECHNOTRONIK LiYY-Nr are 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.

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,
- black PVC insulation and white conductor numbers printed on it for identification,
- insulated conductors laid-up in layers,
- PVC cable sheath, grey RAL 7001, other colours also available.

AVAILABLE UPON REQUEST

TECHNOTRONIK LiYY-Nr-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 LiY11Y-Nr - polyurethane sheathed cables of enhanced protection against mechanical damage, particularly to abrasion and tear, also resistant to oils, petrol, bacteria and ultraviolet radiation.

TECHNOTRONIK LiHH-Nr - 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-LiYY-Nr - specially designed intrinsically safe cable.

TECHNOTRONIK LiYY-Nr

CHARACTERISTICS

Conductor cross-section	mm ²	0.5	0.75	1.0	1.5	2.5
Operating voltage, peak value	V	500	500	500	500	500
Voltage test	V rms	1500	1500	1500	1500	1500
DC conductor resistance at 20°C, maximum	Ω/km	39.0	26.0	19.5	13.3	7.98
Capacitance between conductors at 1 kHz, appr.	nF/km	110	130	130	140	140

Operating voltage U ₀ /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	7.5 x cable diameter
Impedance, approximate	80 Ω	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
0164 038	2 x 0,5	4.0	9.6	25
0164 049	3 x 0,5	4.2	14.4	31
0164 039	4 x 0,5	4.6	19.2	37
0164 041	5 x 0,5	5.3	24.0	49
0164 050	6 x 0,5	5.8	28.8	58
0164 034	7 x 0,5	5.8	33.6	61
0164 051	8 x 0,5	6.2	38.4	70
0164 040	10 x 0,5	7.3	48.0	85
0164 042	12 x 0,5	7.5	57.6	97
0164 052	14 x 0,5	7.9	67.2	110
0164 053	16 x 0,5	8.4	76.8	125
0164 054	18 x 0,5	8.9	86.4	140
0164 001	20 x 0,5	9.7	96.0	164
0164 055	21 x 0,5	9.7	100.8	166
0164 056	27 x 0,5	11.0	129.6	206
0164 057	30 x 0,5	11.4	144.0	225
0164 025	36 x 0,5	12.6	172.8	273
0164 058	40 x 0,5	13.0	192.0	298
0164 059	44 x 0,5	14.3	211.2	332
0164 060	48 x 0,5	14.5	230.4	356
0164 002	2 x 0,75	4.4	14.4	32
0164 003	3 x 0,75	4.6	21.6	39
0164 043	4 x 0,75	5.3	28.8	51
0164 030	5 x 0,75	5.8	36.0	63
0164 061	6 x 0,75	6.3	43.2	74
0164 004	7 x 0,75	6.3	50.4	78
0164 062	8 x 0,75	6.8	57.6	90
0164 063	10 x 0,75	8.0	72.0	111
0164 005	12 x 0,75	8.3	86.4	127
0164 064	16 x 0,75	9.6	115.2	172
0164 006	20 x 0,75	10.7	144.0	213
0164 065	24 x 0,75	12.1	172.8	251
0164 066	27 x 0,75	12.3	194.4	275
0164 007	30 x 0,75	12.8	216.0	302
0164 067	36 x 0,75	14.0	259.2	365
0164 068	40 x 0,75	14.5	288.0	398

Other cross-sections and conductor counts available on request.

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
0164 008	2 x 1,0	4.7	19.2	39
0164 009	3 x 1,0	5.2	28.8	51
0164 010	4 x 1,0	5.7	38.4	62
0164 011	5 x 1,0	6.3	48	77
0164 013	6 x 1,0	6.8	57.6	92
0164 014	7 x 1,0	6.8	67.2	97
0164 015	10 x 1,0	8.7	96.0	139
0164 016	12 x 1,0	9.0	115.2	159
0164 017	16 x 1,0	10.5	153.6	216
0164 018	20 x 1,0	11.8	192.0	273
0164 019	25 x 1,0	13.5	240.0	338
0164 026	2 x 1,5	5.7	28.8	56
0164 027	3 x 1,5	6.0	43.2	70
0164 069	4 x 1,5	6.6	57.6	87
0164 020	5 x 1,5	7.3	72.0	108
0164 070	6 x 1,5	7.9	86.4	128
0164 021	7 x 1,5	7.9	100.8	137
0164 071	9 x 1,5	10.6	129.6	196
0164 022	12 x 1,5	11.0	172.8	236
0164 023	16 x 1,5	12.4	230.4	310
0164 072	20 x 1,5	14.0	288.0	392
0164 033	2 x 2,5	6.5	48.0	79
0164 073	3 x 2,5	6.9	72.0	101
0164 074	4 x 2,5	7.6	96.0	126
0164 075	5 x 2,5	8.4	120.0	158
0164 076	6 x 2,5	9.6	144.0	198
0164 077	7 x 2,5	9.6	168.0	212
0164 078	10 x 2,5	12.5	240.0	307
0164 079	12 x 2,5	13.0	288.0	355
0164 080	16 x 2,5	14.6	384.0	467
0164 081	19 x 2,5	15.5	456.0	539

TECHNOTRONIK LiYY-Nr

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