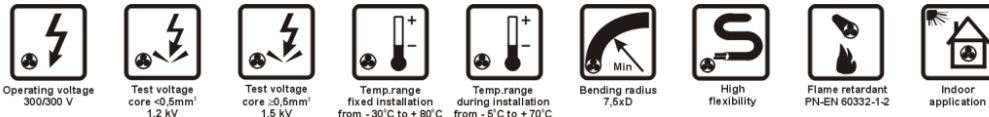


TECHNOTRONIK LiYY-P**CONTROL CABLES FOR INDUSTRIAL ELECTRONIC APPLICATIONS****APPLICATIONS**

TECHNOTRONIK LiYY-P are multipair 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.

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,
- PVC cable sheath, grey RAL 7001, other colours also available.

AVAILABLE UPON REQUEST

TECHNOTRONIK LiYY-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 LiY11Y-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 LiHH-P - 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-P - specially designed intrinsically safe cable.

TECHNOTRONIK LiYY-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	90	100	100	120	120	130

Operating voltage U ₀ /U	300/300 V	Operating temperature range	
Insulation resistance, minimum	20 MΩ·km	for fixed installation	from - 30 to + 80°C
Inductance, approximate	0.7 mH/km	for movable installation	from - 5 to + 70°C
Impedance, approximate	80 Ω	Minimum bending radius	7.5 x cable diameter
Capacitance unbalance, maximum	300 pF/100 m	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 pairs (x 2) x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²	mm	kg/km	kg/km
0168 001	2 x 2 x 0,14	4.5	5.4	22
0168 002	3 x 2 x 0,14	4.8	8.1	24
0168 003	4 x 2 x 0,14	5.4	10.8	32
0168 004	5 x 2 x 0,14	5.9	13.4	38
0168 005	6 x 2 x 0,14	6.5	16.1	44
0168 006	7 x 2 x 0,14	6.5	18.8	48
0168 007	8 x 2 x 0,14	6.9	21.5	54
0168 008	10 x 2 x 0,14	7.8	26.9	65
0168 009	12 x 2 x 0,14	8.2	32.3	74
0168 048	16 x 2 x 0,14	9.6	43.0	103
0168 049	25 x 2 x 0,14	11.8	67.2	154
0168 012	30 x 2 x 0,14	12.8	80.6	179
0168 013	2 x 2 x 0,25	5.2	9.6	31
0168 014	3 x 2 x 0,25	5.5	14.4	36
0168 015	4 x 2 x 0,25	6.1	19.2	44
0168 016	5 x 2 x 0,25	6.7	24.0	53
0168 017	6 x 2 x 0,25	7.3	28.8	61
0168 050	7 x 2 x 0,25	7.3	33.6	67
0168 051	8 x 2 x 0,25	7.7	38.4	75
0168 044	10 x 2 x 0,25	8.8	48.0	92
0168 052	16 x 2 x 0,25	10.9	76.8	146
0168 053	2 x 2 x 0,34	5.6	13.1	37
0168 035	3 x 2 x 0,34	5.9	19.6	44
0168 045	4 x 2 x 0,34	6.5	26.1	55
0168 046	5 x 2 x 0,34	7.2	32.6	66
0168 054	6 x 2 x 0,34	7.8	39.2	76
0168 055	7 x 2 x 0,34	7.8	45.7	85
0168 056	8 x 2 x 0,34	8.3	52.2	96
0168 057	10 x 2 x 0,34	9.9	65.3	127
0168 058	12 x 2 x 0,34	10.4	78.3	146
0168 020	2 x 2 x 0,5	6.5	19.2	48
0168 021	3 x 2 x 0,5	6.9	28.8	57
0168 022	4 x 2 x 0,5	7.6	38.4	71
0168 059	5 x 2 x 0,5	8.3	48.0	85
0168 037	6 x 2 x 0,5	9.1	57.6	99

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
0168 060	7 x 2 x 0,5	9.1	67.2	111
0168 023	8 x 2 x 0,5	10.1	76.8	135
0168 024	10 x 2 x 0,5	11.5	96.0	164
0168 047	12 x 2 x 0,5	12.3	115.2	197
0168 061	18 x 2 x 0,5	14.8	172.8	286
0168 025	2 x 2 x 0,75	7.1	28.8	63
0168 062	3 x 2 x 0,75	7.5	43.2	72
0168 026	4 x 2 x 0,75	8.3	57.6	90
0168 027	5 x 2 x 0,75	9.6	72.0	119
0168 063	6 x 2 x 0,75	10.4	86.4	139
0168 064	7 x 2 x 0,75	10.4	100.8	155
0168 028	8 x 2 x 0,75	11.1	115.2	174
0168 030	10 x 2 x 0,75	12.9	144.0	220
0168 032	16 x 2 x 0,75	15.5	230.4	336
0168 033	2 x 2 x 1,0	7.7	38.4	75
0168 036	3 x 2 x 1,0	8.2	57.6	89
0168 065	4 x 2 x 1,0	9.0	76.8	112
0168 066	5 x 2 x 1,0	10.4	96.0	147
0168 067	6 x 2 x 1,0	11.3	115.2	172
0168 068	7 x 2 x 1,0	11.3	134.4	193
0168 069	8 x 2 x 1,0	12.3	153.6	224
0168 070	10 x 2 x 1,0	14.2	192.0	282
0168 071	12 x 2 x 1,0	14.9	230.4	327
0168 072	16 x 2 x 1,0	16.9	307.2	423
0168 038	2 x 2 x 1,5	9.0	57.6	98
0168 073	3 x 2 x 1,5	9.9	86.4	133
0168 074	4 x 2 x 1,5	10.9	115.2	168
0168 075	5 x 2 x 1,5	12.3	144.0	210
0168 076	6 x 2 x 1,5	13.4	172.8	246
0168 077	7 x 2 x 1,5	13.4	201.6	278
0168 078	8 x 2 x 1,5	14.5	230.4	320
0168 079	12 x 2 x 1,5	17.4	345.6	460

Other cross-sections and pair counts available on request.

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