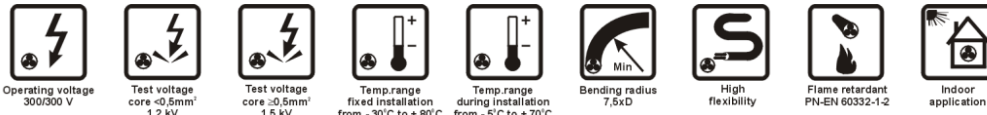


**TECHNOTRONIK LiYY****CONTROL CABLES FOR INDUSTRIAL ELECTRONIC APPLICATIONS****APPLICATIONS**

**TECHNOTRONIK LiYY** 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,
- PVC insulation - identification colour code in accordance with DIN VDE 47100,
- insulated conductors laid-up in layers,
- PVC cable sheath, grey RAL 7001, other colours also available.

**AVAILABLE UPON REQUEST**

**TECHNOTRONIK LiYY-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 LiYY11Y** - 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** - 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** - specially designed intrinsically safe cable.

## TECHNOTRONIK LIYY

### CHARACTERISTICS

Conductor cross-section	mm <sup>2</sup>	<b>0.14</b>	<b>0.25</b>	<b>0.34</b>	<b>0.5</b>	<b>0.75</b>	<b>1.0</b>	<b>1.5</b>	<b>2.5</b>
Operating voltage, peak value	V	350	350	350	500	500	500	500	500
Voltage test	V rms	1200	1200	1200	1500	1500	1500	1500	1500
DC conductor resistance at 20°C, maximum	Ω/km	144.0	79.0	57.0	39.0	26.0	19.5	13.3	7.98
Capacitance between conductors at 1 kHz, appr.	nF/km	90	90	100	100	120	120	130	130

Operating voltage U <sub>0</sub> /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 <sup>2</sup>	mm	kg/km	kg/km
0162 007	2 x 0,14	3.0	2.69	13
0162 010	3 x 0,14	3.1	4.0	15
0162 013	4 x 0,14	3.4	5.4	17
0162 014	5 x 0,14	3.7	6.7	21
0162 015	6 x 0,14	4.0	8.1	25
0162 016	7 x 0,14	4.0	9.4	25
0162 017	8 x 0,14	4.3	10.8	28
0162 018	10 x 0,14	5.2	13.4	37
0162 019	12 x 0,14	5.4	16.1	42
0162 020	14 x 0,14	5.6	18.8	46
0162 021	16 x 0,14	5.9	21.5	52
0162 257	18 x 0,14	6.3	24.2	59
0162 192	20 x 0,14	6.6	26.9	65
0162 272	21 x 0,14	6.6	28.2	65
0162 240	27 x 0,14	7.4	36.3	79
0162 273	30 x 0,14	7.7	40.3	86
0162 022	36 x 0,14	8.3	48.4	102
0162 138	40 x 0,14	8.6	53.8	110
0162 274	44 x 0,14	9.7	59.1	129
0162 275	48 x 0,14	9.9	64.5	138
0162 276	52 x 0,14	10.2	69.9	147
0162 277	56 x 0,14	10.5	75.3	158
0162 278	61 x 0,14	10.8	82.0	168
0162 024	2 x 0,25	3.3	4.8	17
0162 026	3 x 0,25	3.5	7.2	20
0162 029	4 x 0,25	3.8	9.6	24
0162 136	5 x 0,25	4.1	12.0	29
0162 031	6 x 0,25	4.5	14.4	34
0162 032	7 x 0,25	4.5	16.8	35
0162 033	8 x 0,25	4.8	19.2	38
0162 035	10 x 0,25	5.9	24.0	52
0162 036	12 x 0,25	6.0	28.8	58
0162 037	14 x 0,25	6.4	33.6	66
0162 262	16 x 0,25	6.7	38.4	75
0162 279	18 x 0,25	7.1	43.2	83
0162 038	20 x 0,25	7.4	48.0	92
0162 280	21 x 0,25	7.4	50.4	92

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm <sup>2</sup>	mm	kg/km	kg/km
0162 263	24 x 0,25	8.2	57.6	105
0162 281	27 x 0,25	8.4	64.8	115
0162 040	30 x 0,25	8.7	72.0	126
0162 041	36 x 0,25	9.8	86.4	157
0162 264	40 x 0,25	10.2	96.0	170
0162 282	44 x 0,25	11.0	105.6	187
0162 283	48 x 0,25	11.2	115.2	201
0162 284	52 x 0,25	11.5	124.8	215
0162 265	56 x 0,25	12.1	134.4	235
0162 285	61 x 0,25	12.4	146.4	252
0162 105	2 x 0,34	3.5	6.5	20
0162 109	3 x 0,34	3.7	9.8	24
0162 112	4 x 0,34	4.0	13.1	29
0162 115	5 x 0,34	4.4	16.3	36
0162 116	6 x 0,34	4.8	19.6	42
0162 117	7 x 0,34	4.8	22.8	44
0162 118	8 x 0,34	5.4	26.1	51
0162 119	10 x 0,34	6.3	32.6	65
0162 120	12 x 0,34	6.5	39.2	74
0162 162	14 x 0,34	6.8	45.7	84
0162 254	16 x 0,34	7.2	52.2	95
0162 174	18 x 0,34	7.6	58.8	106
0162 121	20 x 0,34	8.0	65.3	118
0162 286	21 x 0,34	8.0	68.5	118
0162 287	27 x 0,34	9.1	88.1	149
0162 266	30 x 0,34	9.8	97.9	171
0162 288	36 x 0,34	10.6	117.5	203
0162 267	40 x 0,34	11.0	130.6	220
0162 289	44 x 0,34	12.1	143.6	248
0162 290	48 x 0,34	12.3	156.7	266
0162 291	52 x 0,34	12.6	169.7	284
0162 292	56 x 0,34	13.0	182.8	305
0162 122	61 x 0,34	13.4	199.1	327
0162 044	2 x 0,5	4.0	9.6	25
0162 046	3 x 0,5	4.2	14.4	31
0162 050	4 x 0,5	4.6	19.2	37

**TECHNOTRONIK LIYY**

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm <sup>2</sup>	mm	kg/km	kg/km
0162 051	5 x 0,5	5.3	24.0	49
0162 052	6 x 0,5	5.8	28.8	58
0162 054	7 x 0,5	5.8	33.6	61
0162 056	8 x 0,5	6.2	38.4	70
0162 057	10 x 0,5	7.3	48.0	85
0162 058	12 x 0,5	7.5	57.6	97
0162 203	14 x 0,5	7.9	67.2	110
0162 059	16 x 0,5	8.4	76.8	125
0162 224	18 x 0,5	8.9	86.4	140
0162 293	20 x 0,5	9.7	96.0	164
0162 294	21 x 0,5	9.7	100.8	166
0162 295	27 x 0,5	11.0	129.6	206
0162 268	30 x 0,5	11.4	144.0	225
0162 296	36 x 0,5	12.6	172.8	273
0162 269	40 x 0,5	13.0	192.0	298
0162 297	44 x 0,5	14.3	211.2	332
0162 298	48 x 0,5	14.5	230.4	356
0162 299	52 x 0,5	14.9	249.6	381
0162 300	56 x 0,5	15.4	268.8	409
0162 060	61 x 0,5	15.9	292.8	439
0162 062	2 x 0,75	4.4	14.4	32
0162 063	3 x 0,75	4.6	21.6	39
0162 065	4 x 0,75	5.3	28.8	51
0162 068	5 x 0,75	5.8	36.0	63
0162 070	6 x 0,75	6.3	43.2	74
0162 072	7 x 0,75	6.3	50.4	78
0162 130	8 x 0,75	6.8	57.6	90
0162 074	10 x 0,75	8.0	72.0	111
0162 075	12 x 0,75	8.3	86.4	127
0162 142	16 x 0,75	9.6	115.2	172
0162 076	20 x 0,75	10.7	144.0	213
0162 220	24 x 0,75	12.1	172.8	251
0162 077	27 x 0,75	12.3	194.4	275
0162 301	30 x 0,75	12.8	216.0	302
0162 302	36 x 0,75	14.0	259.2	365
0162 303	40 x 0,75	14.5	288.0	398
0162 304	42 x 0,75	15.1	302.4	425
0162 305	44 x 0,75	15.7	316.8	436
0162 306	48 x 0,75	16.0	345.6	469
0162 307	52 x 0,75	16.5	374.4	504
0162 308	56 x 0,75	17.0	403.2	540
0162 309	61 x 0,75	17.5	439.2	581

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm <sup>2</sup>	mm	kg/km	kg/km
0162 079	2 x 1,0	4.7	19.2	39
0162 080	3 x 1,0	5.2	28.8	51
0162 081	4 x 1,0	5.7	38.4	62
0162 093	5 x 1,0	6.3	48.0	77
0162 082	6 x 1,0	6.8	57.6	92
0162 084	7 x 1,0	6.8	67.2	97
0162 184	10 x 1,0	8.7	96.0	139
0162 194	12 x 1,0	9.0	115.2	159
0162 086	16 x 1,0	10.5	153.6	216
0162 270	20 x 1,0	11.8	192.0	273
0162 226	25 x 1,0	13.5	240.0	338
0162 310	27 x 1,0	13.5	259.2	349
0162 311	30 x 1,0	14.2	288.0	388
0162 312	36 x 1,0	15.3	345.6	462
0162 313	40 x 1,0	15.9	384.0	505
0162 087	2 x 1,5	5.7	28.8	56
0162 089	3 x 1,5	6.0	43.2	70
0162 091	4 x 1,5	6.6	57.6	87
0162 092	5 x 1,5	7.3	72.0	108
0162 095	6 x 1,5	7.9	86.4	128
0162 096	7 x 1,5	7.9	100.8	137
0162 098	9 x 1,5	10.6	129.6	196
0162 099	12 x 1,5	11.0	172.8	236
0162 100	16 x 1,5	12.4	230.4	310
0162 314	20 x 1,5	14.0	288.0	392
0162 188	24 x 1,5	15.6	345.6	455
0162 102	2 x 2,5	6.5	48.0	79
0162 103	3 x 2,5	6.9	72.0	101
0162 123	4 x 2,5	7.6	96.0	126
0162 104	5 x 2,5	8.4	120.0	158
0162 315	6 x 2,5	9.6	144.0	198
0162 271	7 x 2,5	9.6	168.0	212
0162 316	10 x 2,5	12.5	240.0	307
0162 317	12 x 2,5	13.0	288.0	355
0162 318	16 x 2,5	14.6	384.0	467
0162 319	19 x 2,5	15.5	456.0	539
0162 320	24 x 2,5	18.4	576.0	687

Other cross-sections and conductor counts available on request.

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

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