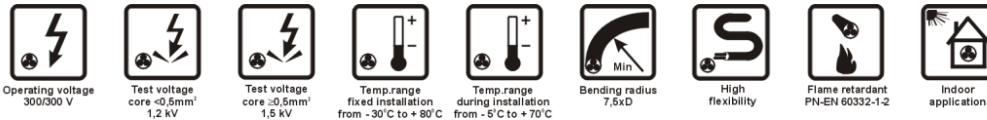


TECHNOTRONIK LiYY

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 LiY11Y - 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.



ISO
9001:2008

TECHNOTRONIK LIYY

CHARACTERISTICS

Conductor cross-section	mm ²	0.14	0.25	0.34	0.5	0.75	1.0	1.5	2.5
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 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
		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
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 ²	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