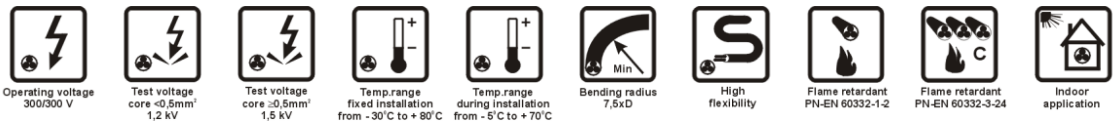
TECHNOKABEL®

ISO 9001:2008

TECHNOKONTROL YnKSLY-P

CONTROL CABLES FOR INDUSTRIAL ELECTRONIC APPLICATIONS



APPLICATIONS

TECHNOKONTROL YnKSLY-P are multipair flame retardant 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 cable sheath is then made of special self-extinguishing PVC of high oxygen index and pass combustibility test according to PN-EN 60332-3 standard.

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

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 according to PN-92/T-90321 compatible with IEC 60189-2,
- insulated conductors twisted into pairs,
- pairs laid-up in layers into a cable core,
- cable core wrapped in polyester tape,
- black (RAL 9005) special self-extinguishing PVC cable sheath, other colours also available.

AVAILABLE UPON REQUEST

TECHNOKONTROL YnKSLY-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.

TECHNOKONTROL YnvKSLY-P - cables with enhanced PVC sheath, suitable for outdoor installation and direct earth burial.

TECHNOKONTROL HKSLH-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.

TECHNOKONTROL IB-YnKSLY-P - specially designed intrinsically safe cable.

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CHARACTERISTICS

Conductor cross-section	mm^2	**0.35**	**0.5**	**0.75**	**1.0**	**1.5**	**2.5**
Operating voltage, peak value	V	350	500	500	500	500	500
Voltage test	V rms	1200	1500	1500	1500	1500	1500
DC loop resistance at 20°C, maximum	Ω/km	110.8	78.0	52.0	39.0	26.6	15.96
Mutual capacitance at 1 kHz, approximate	nF/km	100	100	120	120	130	130

Operating voltage Uo/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 PN-EN 60332-3-24, IEC 60332-3-24 (cat. C)
		Reference standards	WT-TK-16

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
1724 001	2 x 2 x 0,35	5.6	13.4	36
1724 002	3 x 2 x 0,35	5.9	20.2	42
1724 003	4 x 2 x 0,35	6.4	26.9	52
1724 004	5 x 2 x 0,35	7.1	33.6	63
1724 005	6 x 2 x 0,35	7.7	40.3	72
1724 006	7 x 2 x 0,35	7.7	47.0	81
1724 007	8 x 2 x 0,35	8.2	53.8	91
1724 008	10 x 2 x 0,35	9.8	67.2	121
1724 009	12 x 2 x 0,35	10.2	80.6	139
1724 010	14 x 2 x 0,35	10.9	94.1	158
1724 011	16 x 2 x 0,35	11.8	107.5	183
1724 012	18 x 2 x 0,35	12.4	121.0	202
1724 013	20 x 2 x 0,35	13.0	134.4	221
1724 014	24 x 2 x 0,35	14.2	161.3	266
1724 015	25 x 2 x 0,35	14.5	168.0	276
1724 016	30 x 2 x 0,35	15.7	201.6	323
1724 017	31 x 2 x 0,35	15.9	208.3	332
1724 018	33 x 2 x 0,35	16.3	221.8	350
1724 019	37 x 2 x 0,35	17.2	248.6	388
1724 020	40 x 2 x 0,35	17.8	268.8	415
1724 021	44 x 2 x 0,35	18.8	295.7	462
1724 022	48 x 2 x 0,35	19.5	322.6	498
1724 023	50 x 2 x 0,35	19.9	336.0	517
1724 024	52 x 2 x 0,35	20.2	349.4	535
1724 025	56 x 2 x 0,35	20.9	376.3	572
1724 026	2 x 2 x 0,5	6.5	19.2	48
1724 027	3 x 2 x 0,5	6.9	28.8	57
1724 028	4 x 2 x 0,5	7.6	38.4	71
1724 029	5 x 2 x 0,5	8.3	48.0	85
1724 030	6 x 2 x 0,5	9.1	57.6	99
1724 031	7 x 2 x 0,5	9.1	67.2	111
1724 032	8 x 2 x 0,5	10.1	76.8	135
1724 033	10 x 2 x 0,5	11.5	96.0	164
1724 034	12 x 2 x 0,5	12.3	115.2	197
1724 035	14 x 2 x 0,5	13.1	134.4	224
1724 036	16 x 2 x 0,5	14.1	153.6	259

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
1724 037	18 x 2 x 0,5	14.8	172.8	286
1724 038	20 x 2 x 0,5	15.5	192.0	313
1724 039	24 x 2 x 0,5	16.8	230.4	368
1724 040	25 x 2 x 0,5	17.1	240.0	381
1724 041	30 x 2 x 0,5	18.8	288.0	457
1724 042	31 x 2 x 0,5	19.0	297.6	470
1724 043	33 x 2 x 0,5	19.6	316.8	498
1724 044	37 x 2 x 0,5	20.6	355.2	550
1724 045	40 x 2 x 0,5	21.3	384.0	590
1724 046	44 x 2 x 0,5	22.4	422.4	654
1724 047	48 x 2 x 0,5	23.3	460.8	707
1724 048	50 x 2 x 0,5	23.8	480.0	731
1724 049	52 x 2 x 0,5	24.2	499.2	758
1724 050	56 x 2 x 0,5	25.0	537.6	810
1724 051	2 x 2 x 0,75	7.1	28.8	63
1724 052	3 x 2 x 0,75	7.5	43.2	72
1724 053	4 x 2 x 0,75	8.3	57.6	90
1724 054	5 x 2 x 0,75	9.6	72.0	119
1724 055	7 x 2 x 0,75	10.4	100.8	155
1724 056	10 x 2 x 0,75	12.9	144.0	220
1724 057	12 x 2 x 0,75	13.5	172.8	255
1724 058	14 x 2 x 0,75	14.6	201.6	299
1724 059	16 x 2 x 0,75	15.5	230.4	336
1724 060	24 x 2 x 0,75	18.7	345.6	491
1724 061	27 x 2 x 0,75	19.7	388.8	545
1724 062	30 x 2 x 0,75	20.7	432.0	600
1724 063	33 x 2 x 0,75	21.6	475.2	653
1724 064	37 x 2 x 0,75	22.9	532.8	736
1724 065	2 x 2 x 1,0	7.7	38.4	75
1724 066	3 x 2 x 1,0	8.2	57.6	89
1724 067	4 x 2 x 1,0	9.0	76.8	112
1724 068	5 x 2 x 1,0	10.4	96.0	147
1724 069	7 x 2 x 1,0	11.3	134.4	193
1724 070	10 x 2 x 1,0	14.2	192.0	282
1724 071	12 x 2 x 1,0	14.9	230.4	327

TECHNOKABEL S.A., ul. Nasielska 55, 04-343 Warszawa, Poland
Export Department: tel +(48) 22 516 97 67, fax +(48) 22 516 97 87
www.technokabel.com.pl
export@technokabel.com.pl

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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
1724 072	14 x 2 x 1,0	15.9	268.8	375
1724 073	16 x 2 x 1,0	16.9	307.2	423
1724 074	24 x 2 x 1,0	20.4	460.8	619
1724 075	27 x 2 x 1,0	21.5	518.4	689
1724 076	30 x 2 x 1,0	22.8	576.0	770
1724 077	33 x 2 x 1,0	23.8	633.6	838
1724 078	37 x 2 x 1,0	25.1	710.4	930
1724 079	2 x 2 x 1,5	9.0	57.6	98
1724 080	3 x 2 x 1,5	9.9	86.4	133
1724 081	4 x 2 x 1,5	10.9	115.2	168
1724 082	5 x 2 x 1,5	12.3	144.0	210
1724 083	7 x 2 x 1,5	13.4	201.6	278
1724 084	10 x 2 x 1,5	16.6	288.0	394

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
1724 085	12 x 2 x 1,5	17.4	345.6	460
1724 086	14 x 2 x 1,5	18.8	403.2	537
1724 087	16 x 2 x 1,5	20.0	460.8	607
1724 088	24 x 2 x 1,5	24.2	691.2	887
1724 089	2 x 2 x 2,5	10.8	96.0	153
1724 090	3 x 2 x 2,5	11.5	144.0	192
1724 091	4 x 2 x 2,5	12.9	192.0	252
1724 092	5 x 2 x 2,5	14.5	240.0	314
1724 093	7 x 2 x 2,5	15.8	336.0	418
1724 094	10 x 2 x 2,5	19.5	480.0	592
1724 095	12 x 2 x 2,5	20.5	576.0	694
1724 096	14 x 2 x 2,5	22.0	672.0	799
1724 097	16 x 2 x 2,5	23.5	768.0	912

Other cross-sections and pair counts available on request.
TECHNOKABEL S.A. reserves the right to change specifications without prior notice.

TECHNOKABEL S.A., ul. Nasielska 55, 04-343 Warszawa, Poland
Export Department: tel +(48) 22 516 97 67, fax +(48) 22 516 97 87
www.technokabel.com.pl
export@technokabel.com.pl