

TECHNOKONTROL YKSLYekpek**CONTROL CABLES FOR INDUSTRIAL ELECTRONIC APPLICATIONS****APPLICATIONS**

TECHNOKONTROL YKSLYekpek are multipair, pair and overall shielded 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.

Shielded pair structure substantially decreases mutual influence between signals transmitted along the cable.

The cables are protected by an overall electrostatic shield against external electric interferences.

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,
- pair shields incorporating aluminium-polyester tape and stranded annealed tinned copper drain wire,
- shielded pairs laid-up in layers,
- cable core wrapped in polyester tape,
- overall electrostatic shield incorporating aluminium-polyester tape and stranded annealed tinned copper drain wire,
- black (RAL 9005) PVC cable sheath, other colours also available.

AVAILABLE UPON REQUEST

TECHNOKONTROL YKSLYekpek-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 HKSLHekpek - 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 YvKSLYekpek - cables with enhanced PVC sheath, suitable for outdoor installation and direct earth burial.

TECHNOKONTROL IB-YKSLYekpek - specially designed intrinsically safe cable.

TECHNOKONTROL YKSLYekpek

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 loop resistance at 20°C, maximum	Ω/km	78.0	52.0	39.0	26.6	15.96
Mutual capacitance at 1 kHz, approximate	nF/km	220	240	260	260	290

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	40 Ω	Minimum bending radius	10 x cable diameter
Capacitance unbalance, maximum	250 pF/100m	Cable combustibility	flame retardant
		Combustibility tests	PN-EN 60332-1-2, IEC 60332-1-2
		Reference standards	WT-TK-18

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
0301 001	2 x 2 x 0,5	6.9	26.4	64
0301 035	3 x 2 x 0,5	7.3	38.4	73
0301 002	4 x 2 x 0,5	8.1	50.4	91
0301 029	5 x 2 x 0,5	8.9	62.4	109
0301 003	6 x 2 x 0,5	10.1	74.4	126
0301 004	8 x 2 x 0,5	10.8	98.4	168
0301 005	10 x 2 x 0,5	12.5	122.4	216
0301 025	12 x 2 x 0,5	13.0	146.4	250
0301 007	16 x 2 x 0,5	15.0	194.4	328
0301 006	18 x 2 x 0,5	15.7	218.4	363
0301 008	24 x 2 x 0,5	17.9	290.4	468
0301 040	36 x 2 x 0,5	21.6	434.4	685
0301 041	48 x 2 x 0,5	24.8	578.4	902
0301 009	2 x 2 x 0,75	7.5	43.2	86
0301 011	3 x 2 x 0,75	8.0	62.4	98
0301 012	4 x 2 x 0,75	8.8	81.6	123
0301 013	5 x 2 x 0,75	10.1	100.8	159
0301 030	8 x 2 x 0,75	12.0	158.4	233
0301 015	10 x 2 x 0,75	13.6	196.8	293
0301 031	12 x 2 x 0,75	14.5	235.2	348
0301 036	16 x 2 x 0,75	16.4	312.0	448
0301 017	24 x 2 x 0,75	19.8	465.6	654
0301 042	36 x 2 x 0,75	23.9	696.0	957
0301 018	2 x 2 x 1,0	8.1	52.8	102
0301 032	3 x 2 x 1,0	8.6	76.8	115

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
0301 037	4 x 2 x 1,0	9.9	100.8	156
0301 033	5 x 2 x 1,0	10.9	124.8	187
0301 043	8 x 2 x 1,0	13.0	196.8	277
0301 038	10 x 2 x 1,0	15.0	244.8	356
0301 019	12 x 2 x 1,0	15.7	292.8	415
0301 024	16 x 2 x 1,0	17.8	388.8	537
0301 044	24 x 2 x 1,0	21.5	580.8	785
0301 045	2 x 2 x 1,5	9.8	79.2	147
0301 020	3 x 2 x 1,5	10.4	115.2	169
0301 023	4 x 2 x 1,5	11.5	151.2	213
0301 046	5 x 2 x 1,5	12.8	187.2	264
0301 021	6 x 2 x 1,5	14.2	223.2	285
0301 047	8 x 2 x 1,5	15.2	295.2	390
0301 014	10 x 2 x 1,5	17.3	367.2	493
0301 048	12 x 2 x 1,5	18.4	439.2	586
0301 022	16 x 2 x 1,5	20.9	583.2	759
0301 049	2 x 2 x 2,5	11.3	117.6	201
0301 050	3 x 2 x 2,5	12.2	172.8	236
0301 051	4 x 2 x 2,5	13.4	228.0	299
0301 039	5 x 2 x 2,5	15.0	283.2	371
0301 052	8 x 2 x 2,5	17.6	448.8	542
0301 053	10 x 2 x 2,5	20.3	559.2	697
0301 054	12 x 2 x 2,5	21.3	669.6	819
0301 055	16 x 2 x 2,5	24.4	890.4	1073

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