

TECHNOKONTROL YnKSLYekw-P**CONTROL CABLES FOR INDUSTRIAL ELECTRONIC APPLICATIONS****APPLICATIONS**

TECHNOKONTROL YnKSLYekw-P are multipair overall shielded, 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.

The cable is protected by an overall electrostatic shield against external electric interferences and prevents emission of interferences produced in the cable.

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,
- overall electrostatic shield incorporating aluminium-polyester tape and stranded annealed tinned copper drain wire,
- black (RAL 9005) special self-extinguishing PVC cable sheath, other colours also available.

AVAILABLE UPON REQUEST

TECHNOKONTROL YnKSLYekw-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 HKSLHekw-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-YnKSLYekw-P - specially designed intrinsically safe cable.

TECHNOKONTROL YnKSLYekw-P

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	110	110	120	130	140	140

Operating voltage U _o /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	10 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
0970 018	2 x 2 x 0,35	5.7	15.8	40
0970 019	3 x 2 x 0,35	6.0	22.6	46
0970 020	4 x 2 x 0,35	6.5	29.3	56
0970 021	5 x 2 x 0,35	7.2	36.0	67
0970 022	6 x 2 x 0,35	7.8	42.7	77
0970 023	7 x 2 x 0,35	7.8	49.4	85
0970 024	8 x 2 x 0,35	8.3	56.2	95
0970 025	10 x 2 x 0,35	9.9	69.6	126
0970 026	12 x 2 x 0,35	10.3	83.0	143
0970 027	14 x 2 x 0,35	11.0	96.5	163
0970 028	16 x 2 x 0,35	11.9	109.9	188
0970 029	18 x 2 x 0,35	12.5	123.4	208
0970 030	20 x 2 x 0,35	13.1	136.8	227
0970 031	24 x 2 x 0,35	14.3	163.7	272
0970 032	25 x 2 x 0,35	14.6	170.4	282
0970 033	30 x 2 x 0,35	15.8	204.0	329
0970 034	31 x 2 x 0,35	16.0	210.7	339
0970 035	33 x 2 x 0,35	16.4	224.2	357
0970 036	37 x 2 x 0,35	17.3	251.0	395
0970 037	40 x 2 x 0,35	17.9	271.2	422
0970 038	44 x 2 x 0,35	18.9	298.1	469
0970 039	48 x 2 x 0,35	19.6	325.0	506
0970 040	50 x 2 x 0,35	20.0	338.4	525
0970 041	52 x 2 x 0,35	20.3	351.8	543
0970 042	56 x 2 x 0,35	21.0	378.7	580
0970 008	2 x 2 x 0,5	6.6	21.6	52
0970 043	3 x 2 x 0,5	7.0	31.2	61
0970 009	4 x 2 x 0,5	7.7	40.8	75
0970 017	5 x 2 x 0,5	8.4	50.4	89
0970 014	6 x 2 x 0,5	9.6	60.0	113
0970 044	7 x 2 x 0,5	9.6	69.6	125
0970 012	8 x 2 x 0,5	10.2	79.2	140
0970 013	10 x 2 x 0,5	11.8	98.4	176
0970 010	12 x 2 x 0,5	12.4	117.6	202
0970 045	14 x 2 x 0,5	13.2	136.8	230
0970 046	16 x 2 x 0,5	14.2	156.0	265

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
0970 047	18 x 2 x 0,5	14.9	175.2	292
0970 016	20 x 2 x 0,5	15.6	194.4	320
0970 011	24 x 2 x 0,5	16.9	232.8	374
0970 048	25 x 2 x 0,5	17.2	242.4	388
0970 049	30 x 2 x 0,5	18.9	290.4	465
0970 050	31 x 2 x 0,5	19.1	300.0	478
0970 051	33 x 2 x 0,5	19.7	319.2	505
0970 052	37 x 2 x 0,5	20.7	357.6	559
0970 053	40 x 2 x 0,5	21.4	386.4	598
0970 054	44 x 2 x 0,5	22.5	424.8	662
0970 055	48 x 2 x 0,5	23.4	463.2	715
0970 056	50 x 2 x 0,5	23.9	482.4	740
0970 057	52 x 2 x 0,5	24.3	501.6	767
0970 058	56 x 2 x 0,5	25.1	540.0	819
0970 059	2 x 2 x 0,75	7.2	33.6	69
0970 060	3 x 2 x 0,75	7.6	48.0	78
0970 061	4 x 2 x 0,75	8.4	62.4	97
0970 062	5 x 2 x 0,75	9.7	76.8	126
0970 063	7 x 2 x 0,75	10.5	105.6	162
0970 007	10 x 2 x 0,75	13.0	148.8	228
0970 064	12 x 2 x 0,75	13.6	177.6	263
0970 065	14 x 2 x 0,75	14.7	206.4	307
0970 066	16 x 2 x 0,75	15.6	235.2	345
0970 067	24 x 2 x 0,75	18.8	350.4	500
0970 068	27 x 2 x 0,75	19.8	393.6	555
0970 069	30 x 2 x 0,75	20.8	436.8	610
0970 070	33 x 2 x 0,75	21.7	480.0	663
0970 071	37 x 2 x 0,75	23.0	537.6	746
0970 003	2 x 2 x 1,0	7.8	43.2	81
0970 072	3 x 2 x 1,0	8.3	62.4	95
0970 004	4 x 2 x 1,0	9.1	81.6	119
0970 005	5 x 2 x 1,0	10.5	100.8	154
0970 073	7 x 2 x 1,0	11.4	139.2	201
0970 074	10 x 2 x 1,0	14.3	196.8	290
0970 015	12 x 2 x 1,0	15.0	235.2	336

TECHNOKONTROL YnKSLYekw-P

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
0970 075	14 x 2 x 1,0	16.0	273.6	384
0970 006	16 x 2 x 1,0	17.0	312.0	431
0970 076	24 x 2 x 1,0	20.5	465.6	629
0970 077	27 x 2 x 1,0	21.6	523.2	699
0970 078	30 x 2 x 1,0	22.9	580.8	781
0970 079	33 x 2 x 1,0	23.9	638.4	848
0970 080	37 x 2 x 1,0	25.2	715.2	941
0970 001	2 x 2 x 1,5	9.1	64.8	107
0970 081	3 x 2 x 1,5	10.0	93.6	142
0970 082	4 x 2 x 1,5	11.0	122.4	177
0970 083	5 x 2 x 1,5	12.4	151.2	220
0970 084	7 x 2 x 1,5	13.5	208.8	287
0970 085	10 x 2 x 1,5	16.7	295.2	404

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
0970 086	12 x 2 x 1,5	17.5	352.8	471
0970 087	14 x 2 x 1,5	18.9	410.4	549
0970 088	16 x 2 x 1,5	20.1	468.0	619
0970 089	24 x 2 x 1,5	24.3	698.4	900
0970 090	2 x 2 x 2,5	10.9	103.2	162
0970 091	3 x 2 x 2,5	11.8	151.2	207
0970 092	4 x 2 x 2,5	13.0	199.2	261
0970 093	5 x 2 x 2,5	14.6	247.2	324
0970 094	7 x 2 x 2,5	15.9	343.2	428
0970 095	10 x 2 x 2,5	19.6	487.2	603
0970 096	12 x 2 x 2,5	20.6	583.2	706
0970 097	14 x 2 x 2,5	22.1	679.2	811
0970 098	16 x 2 x 2,5	23.6	775.2	925

Other cross-sections and pair counts available on request.

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