

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

TECHNOKONTROL YnKSLYekw are 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.

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 in accordance with DIN VDE 47100,
- insulated conductors 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) special self-extinguishing PVC cable sheath, other colours also available.

AVAILABLE UPON REQUEST

TECHNOKONTROL YnKSLYekw-Nr - cables with black conductor insulation and white conductor numbers printed on it for identification, available for cross-section 0.5 mm² and bigger.

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

TECHNOKONTROL HKSLHekw - 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-YKSLYekw - specially designed intrinsically safe cable.

TECHNOKONTROL YnKSLYekw

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 conductor resistance at 20°C, maximum	Ω/km	55.4	39.0	26.0	19.5	13.3	7.98
Capacitance between conductors at 1 kHz, appr.	nF/km	110	110	120	130	140	140

Operating voltage U _o /U	300/300 V	Operating temperature range	from - 30 to + 80°C
Insulation resistance, minimum	20 MΩ·km	for fixed installation	from - 5 to + 70°C
Inductance, approximate	0.7 mH/km	for movable installation	
Impedance, approximate	80 Ω	Minimum bending radius	10 x cable diameter
		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-14

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
0374 022	2 x 0,35	3.7	9.1	21
0374 023	3 x 0,35	3.9	12.5	25
0374 024	4 x 0,35	4.2	15.8	30
0374 025	5 x 0,35	4.6	19.2	36
0374 026	6 x 0,35	4.9	22.6	42
0374 027	7 x 0,35	4.9	25.9	44
0374 028	8 x 0,35	5.5	29.3	52
0374 029	10 x 0,35	6.4	36.0	63
0374 030	12 x 0,35	6.6	42.7	73
0374 031	14 x 0,35	7.0	49.4	82
0374 032	16 x 0,35	7.3	56.2	92
0374 033	19 x 0,35	7.7	66.2	105
0374 034	20 x 0,35	8.1	69.6	114
0374 035	21 x 0,35	8.1	73.0	114
0374 036	24 x 0,35	9.0	83.0	130
0374 037	25 x 0,35	9.6	86.4	148
0374 038	27 x 0,35	9.6	93.1	152
0374 039	30 x 0,35	9.9	103.2	166
0374 040	32 x 0,35	10.3	109.9	179
0374 041	33 x 0,35	10.3	113.3	181
0374 042	34 x 0,35	10.7	116.6	192
0374 043	37 x 0,35	10.7	126.7	198
0374 044	40 x 0,35	11.1	136.8	212
0374 045	42 x 0,35	11.4	143.5	227
0374 046	44 x 0,35	12.1	150.2	238
0374 047	48 x 0,35	12.3	163.7	255
0374 048	50 x 0,35	12.7	170.4	269
0374 049	52 x 0,35	12.7	177.1	273
0374 050	56 x 0,35	13.0	190.6	292
0374 051	61 x 0,35	13.4	207.4	313
0374 009	2 x 0,5	4.2	12.0	26
0374 052	3 x 0,5	4.4	16.8	32
0374 015	4 x 0,5	4.8	21.6	39
0374 053	5 x 0,5	5.5	26.4	51
0374 054	6 x 0,5	6.0	31.2	60
0374 016	7 x 0,5	6.0	36.0	62

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
0374 055	8 x 0,5	6.4	40.8	72
0374 056	10 x 0,5	7.5	50.4	85
0374 057	12 x 0,5	7.7	60.0	98
0374 058	14 x 0,5	8.1	69.6	111
0374 059	16 x 0,5	8.6	79.2	126
0374 060	19 x 0,5	9.1	93.6	144
0374 061	20 x 0,5	9.9	98.4	167
0374 062	21 x 0,5	9.9	103.2	169
0374 063	24 x 0,5	11.0	117.6	190
0374 064	27 x 0,5	11.2	132.0	208
0374 065	30 x 0,5	11.8	146.4	234
0374 066	33 x 0,5	12.3	160.8	255
0374 067	37 x 0,5	12.8	180.0	280
0374 068	44 x 0,5	14.5	213.6	336
0374 069	48 x 0,5	14.7	232.8	361
0374 070	52 x 0,5	15.1	252.0	386
0374 002	2 x 0,75	4.6	19.2	33
0374 071	3 x 0,75	4.8	26.4	42
0374 003	4 x 0,75	5.5	33.6	54
0374 072	5 x 0,75	6.0	40.8	65
0374 004	7 x 0,75	6.5	55.2	82
0374 011	10 x 0,75	8.2	76.8	112
0374 073	12 x 0,75	8.5	91.2	129
0374 074	14 x 0,75	8.9	105.6	146
0374 075	16 x 0,75	9.8	120.0	176
0374 076	19 x 0,75	10.4	141.6	201
0374 077	24 x 0,75	12.3	177.6	255
0374 078	27 x 0,75	12.5	199.2	280
0374 005	30 x 0,75	13.0	220.8	306
0374 079	33 x 0,75	13.5	242.4	335
0374 080	37 x 0,75	14.2	271.2	375
0374 081	44 x 0,75	15.9	321.6	441
0374 082	48 x 0,75	16.2	350.4	475
0374 083	52 x 0,75	16.7	379.2	509
0374 013	2 x 1,0	4.9	24.0	39

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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
0374 012	3 x 1,0	5.4	33.6	53
0374 006	4 x 1,0	5.9	43.2	65
0374 017	5 x 1,0	6.5	52.8	80
0374 014	7 x 1,0	7.0	72.0	100
0374 018	10 x 1,0	8.9	100.8	138
0374 019	12 x 1,0	9.6	120.0	170
0374 084	14 x 1,0	10.1	139.2	193
0374 020	16 x 1,0	10.7	158.4	219
0374 085	19 x 1,0	11.3	187.2	251
0374 086	24 x 1,0	13.4	235.2	319
0374 087	27 x 1,0	13.7	264.0	352
0374 088	30 x 1,0	14.4	292.8	393
0374 089	33 x 1,0	14.9	321.6	430
0374 090	37 x 1,0	15.5	360.0	472
0374 091	44 x 1,0	17.4	427.2	556
0374 092	48 x 1,0	17.7	465.6	600
0374 093	52 x 1,0	18.4	504.0	654
0374 010	2 x 1,5	5.9	36.0	55
0374 094	3 x 1,5	6.2	50.4	72
0374 095	4 x 1,5	6.8	64.8	90
0374 096	5 x 1,5	7.5	79.2	110
0374 097	7 x 1,5	8.1	108.0	140
0374 098	10 x 1,5	10.8	151.2	205
0374 099	12 x 1,5	11.2	180.0	238
0374 100	14 x 1,5	12.0	208.8	277
0374 101	16 x 1,5	12.6	237.6	314

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
0374 102	19 x 1,5	13.3	280.8	360
0374 103	24 x 1,5	15.8	352.8	457
0374 104	27 x 1,5	16.1	396.0	504
0374 105	30 x 1,5	16.7	439.2	554
0374 106	33 x 1,5	17.4	482.4	607
0374 107	37 x 1,5	18.3	540.0	678
0374 108	44 x 1,5	20.5	640.8	799
0374 109	48 x 1,5	20.9	698.4	863
0374 110	52 x 1,5	21.5	756.0	928
0374 111	2 x 2,5	6.7	55.2	76
0374 112	3 x 2,5	7.1	79.2	101
0374 113	4 x 2,5	7.8	103.2	127
0374 114	5 x 2,5	8.6	127.2	159
0374 115	7 x 2,5	9.8	175.2	214
0374 116	10 x 2,5	12.7	247.2	304
0374 117	12 x 2,5	13.2	295.2	354
0374 118	14 x 2,5	14.1	343.2	413
0374 119	16 x 2,5	14.8	391.2	469
0374 120	19 x 2,5	15.7	463.2	540
0374 121	24 x 2,5	18.6	583.2	684
0374 122	27 x 2,5	19.0	655.2	758
0374 123	30 x 2,5	19.7	727.2	834
0374 124	33 x 2,5	20.5	799.2	915
0374 125	37 x 2,5	21.3	895.2	1011
0374 126	44 x 2,5	24.2	1063.2	1206

Other cross-sections and conductor counts available on request.

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