

TECHNOKONTROL YnKSLY-Nr 300/500 V
TECHNOKONTROL YnKSLYżo-Nr 300/500 V**CONTROL AND POWER SUPPLY FLEXIBLE CABLES**Operating voltage
300/500 VTest voltage
3 kVTemp. range
fixed installation
from -30°C to +80°CTemp. range
during installation
from -5°C to +70°CBending radius
7,5xDHigh
flexibilityFlame retardant
PN-EN 60332-1-2Flame retardant
PN-EN 60332-3-24Indoor
application**APPLICATIONS**

TECHNOKONTROL YnKSLY-Nr 300/500 V and **TECHNOKONTROL YnKSLYżo-Nr 300/500 V** are flexible, flame retardant cables intended for control, protection and monitoring systems or power supply, all in power engineering. The cables are also intended for wiring industrial plants, such as production lines, air-conditioning equipment etc.

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 cables are designed to offer high flexibility combined with tensile strength.

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,
- black PVC insulation and white conductor numbers printed on it for identification,
- insulated conductors laid-up in layers, green-yellow protective conductor located in the outer layer in **TECHNOKONTROL YnKSLYżo-Nr 300/500 V** cable,
- cable core wrapped in polyester tape,
- black (RAL 9005) special self-extinguishing PVC cable sheath, other colours also available.

AVAILABLE UPON REQUEST

TECHNOKONTROL YnKSLY-Nr-O 300/500 V and **TECHNOKONTROL YnKSLYżo-Nr-O 300/500 V** - 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-Nr 300/500 V and **TECHNOKONTROL YnvKSLYżo-Nr 300/500 V** - cables with enhanced PVC sheath, suitable for outdoor installation and direct earth burial.

TECHNOKONTROL HKSLH-Nr 300/500 V and **TECHNOKONTROL HKSLHżo-Nr 300/500 V** - 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 YnKSLY-Nr 300/500 V TECHNOKONTROL YnKSLYżo-Nr 300/500 V

CHARACTERISTICS

Conductor cross-section	mm ²	0.5	0.75	1.0	1.5	2.5	4.0
DC conductor resistance at 20°C, maximum	Ω/km	39.0	26.0	19.5	13.3	7.98	4.95
Conductor cross-section	mm ²	6.0	10	16	25	35	50
DC conductor resistance at 20°C, maximum	Ω/km	3.30	1.91	1.21	0.780	0.554	0.386

Operating voltage U ₀ /U	300/500 V	Operating temperature range	
Voltage test	3.0 kV rms	for fixed installation	from - 30 to + 80°C
Insulation resistance, minimum	20 MΩ·km	for movable installation	from - 5 to + 70°C
Conductor temperature limit		Minimum bending radius	7.5 x cable diameter
in work conditions	+ 70°C	Cable combustibility	flame retardant
at short-circuit	+ 150°C	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-15

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
0371 046	2 x 0,5	4.7	9.6	28
0371 047	3 x 0,5	5.0	14.4	35
0371 048	4 x 0,5	5.4	19.2	43
0371 021	5 x 0,5	5.9	24.0	53
0371 049	6 x 0,5	6.4	28.8	62
0371 006	7 x 0,5	6.4	33.6	65
0371 050	8 x 0,5	6.9	38.4	76
0371 051	10 x 0,5	8.0	48.0	90
0371 052	12 x 0,5	8.3	57.6	104
0371 053	14 x 0,5	8.7	67.2	117
0371 054	16 x 0,5	9.2	76.8	134
0371 055	20 x 0,5	10.6	96.0	177
0371 056	21 x 0,5	10.6	100.8	180
0371 057	25 x 0,5	12.2	120.0	222
0371 058	32 x 0,5	13.1	153.6	268
0371 059	37 x 0,5	13.6	177.6	297
0371 060	42 x 0,5	14.8	201.6	350
0371 061	50 x 0,5	16.1	240.0	405
0371 062	56 x 0,5	16.6	268.8	440
0371 063	61 x 0,5	17.1	292.8	472
0371 022	2 x 0,75	5.1	14.4	34
0371 023	3 x 0,75	5.3	21.6	43
0371 011	4 x 0,75	5.8	28.8	53
0371 014	5 x 0,75	6.3	36.0	66
0371 064	6 x 0,75	6.9	43.2	79
0371 019	7 x 0,75	6.9	50.4	83
0371 013	8 x 0,75	7.4	57.6	97
0371 065	10 x 0,75	8.7	72.0	116
0371 066	12 x 0,75	9.0	86.4	134
0371 067	14 x 0,75	9.9	100.8	162
0371 039	16 x 0,75	10.4	115.2	184

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
0371 068	20 x 0,75	11.5	144.0	228
0371 015	21 x 0,75	11.5	151.2	233
0371 069	25 x 0,75	13.3	180.0	287
0371 070	32 x 0,75	14.5	230.4	357
0371 071	37 x 0,75	15.0	266.4	395
0371 072	42 x 0,75	16.1	302.4	456
0371 073	50 x 0,75	17.6	360.0	530
0371 004	2 x 1,0	5.4	19.2	40
0371 012	3 x 1,0	5.7	28.8	52
0371 005	4 x 1,0	6.3	38.4	65
0371 018	5 x 1,0	6.8	48.0	81
0371 017	6 x 1,0	7.4	57.6	97
0371 074	7 x 1,0	7.4	67.2	103
0371 040	8 x 1,0	8.0	76.8	119
0371 025	10 x 1,0	9.8	96.0	153
0371 041	12 x 1,0	10.2	115.2	177
0371 027	14 x 1,0	10.7	134.4	201
0371 042	16 x 1,0	11.2	153.6	228
0371 075	20 x 1,0	12.7	192.0	291
0371 016	21 x 1,0	12.7	201.6	297
0371 076	25 x 1,0	14.6	240.0	364
0371 077	32 x 1,0	15.7	307.2	445
0371 078	37 x 1,0	16.3	355.2	495
0371 079	42 x 1,0	17.5	403.2	571
0371 080	50 x 1,0	19.3	480.0	675
0371 002	2 x 1,5	6.0	28.8	51
0371 007	3 x 1,5	6.3	43.2	67
0371 001	4 x 1,5	6.9	57.6	85
0371 030	5 x 1,5	7.6	72.0	106
0371 026	6 x 1,5	8.2	86.4	127

TECHNOKONTROL YnKSLY-Nr 300/500 V **TECHNOKONTROL YnKSLYżo-Nr 300/500 V**

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
0371 034	7 x 1,5	8.2	100.8	136
0371 010	8 x 1,5	8.9	115.2	159
0371 033	10 x 1,5	10.9	144.0	201
0371 029	12 x 1,5	11.3	172.8	234
0371 003	14 x 1,5	12.1	201.6	273
0371 035	16 x 1,5	12.7	230.4	311
0371 081	20 x 1,5	14.3	288.0	395
0371 082	21 x 1,5	14.3	302.4	404
0371 083	25 x 1,5	16.2	360.0	484
0371 084	32 x 1,5	17.5	460.8	596
0371 085	37 x 1,5	18.4	532.8	676
0371 086	42 x 1,5	19.8	604.8	779
0371 087	50 x 1,5	21.6	720.0	909
0371 037	2 x 2,5	6.8	48.0	71
0371 088	3 x 2,5	7.2	72.0	96
0371 008	4 x 2,5	7.9	96.0	123
0371 089	5 x 2,5	8.7	120.0	154
0371 009	6 x 2,5	9.9	144.0	196
0371 031	7 x 2,5	9.9	168.0	210
0371 043	8 x 2,5	10.8	192.0	245
0371 036	10 x 2,5	12.8	240.0	301
0371 044	12 x 2,5	13.3	288.0	351
0371 090	14 x 2,5	14.2	336.0	410
0371 091	16 x 2,5	14.9	384.0	466
0371 092	20 x 2,5	16.6	480.0	583
0371 093	21 x 2,5	16.6	504.0	597
0371 094	25 x 2,5	19.1	600.0	729
0371 095	2 x 4,0	8.2	76.8	103
0371 096	3 x 4,0	8.7	115.2	143

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
0371 045	4 x 4,0	10.0	153.6	194
0371 097	5 x 4,0	11.0	192.0	243
0371 098	7 x 4,0	12.2	268.8	322
0371 099	3 x 6,0	10.5	172.8	216
0371 020	4 x 6,0	11.6	230.4	278
0371 100	5 x 6,0	12.9	288.0	357
0371 101	7 x 6,0	14.4	403.2	474
0371 102	3 x 10,0	13.3	288.0	361
0371 103	4 x 10,0	14.9	384.0	475
0371 104	5 x 10,0	16.4	480.0	600
0371 105	7 x 10,0	18.0	672.0	790
0371 106	3 x 16,0	15.9	460.8	549
0371 107	4 x 16,0	17.5	614.4	713
0371 108	5 x 16,0	19.5	768.0	913
0371 109	7 x 16,0	21.4	1075.2	1211
0371 110	3 x 25,0	18.6	720.0	795
0371 111	4 x 25,0	20.6	960.0	1036
0371 112	5 x 25,0	22.9	1200.0	1325
0371 113	3 x 35,0	21.9	1008.0	1097
0371 114	4 x 35,0	24.5	1344.0	1447
0371 115	5 x 35,0	27.1	1680.0	1839
0371 116	3 x 50,0	27.5	1440.0	1608
0371 117	4 x 50,0	30.5	1920.0	2107
0371 118	5 x 50,0	34.0	2400.0	2707

Other cross-sections and conductor counts available on request.

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