

TECHNOKONTROL YKSLXSekw-P-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
10xDHigh
flexibilityFlame retardant
PN-EN 60332-1-2Indoor
applicationEMC
Electromagnetic
compatibility**APPLICATIONS**

TECHNOKONTROL YKSLXSekw-P-Nr 300/500 V are multipair overall shielded cables intended for control, protection and monitoring systems, also for power supply, all in power engineering.

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.

Small mutual capacitance and higher, up to 90°C, operating temperature limit of conductors is offered due to application of cross-linked polyethylene insulation.

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,
- cross-linked polyethylene (XLPE) insulation - identification of pairs: black and brown insulation and white pair numbers printed on it,
- 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) PVC cable sheath, other colours also available.

AVAILABLE UPON REQUEST

TECHNOKONTROL YKSLXSekw-P-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 HKSLXSekw-P-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 YvKSLXSekw-P-Nr 300/500 V - cables with enhanced PVC sheath, suitable for outdoor installation and direct earth burial.

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CHARACTERISTICS

Conductor cross-section	mm ²	0.5	0.75	1.0	1.5	2.5
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	55	60	60	65	70

Operating voltage U_o/U 300/500 V
 Voltage test 3.0 kV rms
 Insulation resistance, minimum 100 MΩ·km
 Inductance, approximate 0.7 mH/km
 Conductor temperature limit
 in work conditions + 90°C
 at short-circuit + 250°C

Operating temperature range
 for fixed installation from - 30 to + 80°C
 for movable installation from - 5 to + 70°C
 Minimum bending radius 10 x cable diameter
 Cable combustibility flame retardant
 Combustibility tests PN-EN 60332-1-2, IEC 60332-1-2

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
0715 006	2 x 2 x 0,5	7.8	21.6	64
0715 007	3 x 2 x 0,5	8.3	31.2	70
0715 008	4 x 2 x 0,5	9.1	40.8	85
0715 009	5 x 2 x 0,5	10.4	50.4	111
0715 010	6 x 2 x 0,5	11.3	60.0	128
0715 011	8 x 2 x 0,5	12.3	79.2	163
0715 012	10 x 2 x 0,5	13.9	98.4	196
0715 013	12 x 2 x 0,5	14.8	117.6	232
0715 014	16 x 2 x 0,5	16.7	156.0	292
0715 015	18 x 2 x 0,5	17.6	175.2	322
0715 016	24 x 2 x 0,5	20.2	232.8	420
0715 017	27 x 2 x 0,5	21.2	261.6	463
0715 018	30 x 2 x 0,5	22.3	290.4	507
0715 019	2 x 2 x 0,75	8.4	33.6	77
0715 020	3 x 2 x 0,75	8.9	48.0	87
0715 001	4 x 2 x 0,75	10.2	62.4	118
0715 021	5 x 2 x 0,75	11.2	76.8	139
0715 022	8 x 2 x 0,75	13.3	120.0	205
0715 023	10 x 2 x 0,75	15.3	148.8	256
0715 024	12 x 2 x 0,75	16.0	177.6	293
0715 025	16 x 2 x 0,75	18.1	235.2	372
0715 026	18 x 2 x 0,75	19.3	264.0	421
0715 002	2 x 2 x 1,0	9.0	43.2	89
0715 027	3 x 2 x 1,0	10.0	62.4	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
0715 028	4 x 2 x 1,0	11.0	81.6	142
0715 029	5 x 2 x 1,0	12.3	100.8	175
0715 030	8 x 2 x 1,0	14.5	158.4	258
0715 031	10 x 2 x 1,0	16.4	196.8	312
0715 032	12 x 2 x 1,0	17.2	235.2	360
0715 033	14 x 2 x 1,0	18.6	273.6	419
0715 034	16 x 2 x 1,0	19.7	312.0	470
0715 004	2 x 2 x 1,5	10.3	64.8	127
0715 035	3 x 2 x 1,5	11.0	93.6	149
0715 036	4 x 2 x 1,5	12.3	122.4	191
0715 037	5 x 2 x 1,5	13.5	151.2	228
0715 005	8 x 2 x 1,5	15.9	237.6	340
0715 038	10 x 2 x 1,5	18.4	295.2	424
0715 039	12 x 2 x 1,5	19.2	352.8	490
0715 040	14 x 2 x 1,5	20.6	410.4	560
0715 041	2 x 2 x 2,5	12.0	103.2	179
0715 042	3 x 2 x 2,5	12.7	151.2	215
0715 043	4 x 2 x 2,5	14.2	199.2	277
0715 044	5 x 2 x 2,5	15.7	247.2	333
0715 045	7 x 2 x 2,5	17.1	343.2	437
0715 046	10 x 2 x 2,5	21.1	487.2	614
0715 047	12 x 2 x 2,5	22.1	583.2	715

Other cross-sections and pair counts available on request.

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