

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

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.

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,
- pair shields incorporating aluminium-polyester tape and stranded annealed tinned copper drain wire,
- 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 YKSLXSekpekwn-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 HKSLXSekpekwn-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 YvKSLXSekpekwn-Nr 300/500 V - cables with enhanced PVC sheath, suitable for outdoor installation and direct earth burial.

TECHNOKONTROL YKSLXSekpek-Nr 300/500 V

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	80	90	100	110	130
Operating voltage Uo/U	300/500 V	Operating temperature range			from - 30 to + 80°C from - 5 to + 70°C		
Voltage test	3.0 kV rms	for fixed installation for movable installation					
Insulation resistance, minimum	100 MΩ·km	Minimum bending radius			10 x cable diameter		
Inductance, approximate	0.7 mH/km	Cable combustibility			flame retardant		
Capacitance between conductor and screen, appr.	200 nF/km	Combustibility tests			PN-EN 60332-1-2 , IEC 60332-1-2		
Conductor temperature limit in work conditions	+ 90°C						
at short-circuit	+ 250°C						

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
0714 010	2 x 2 x 0,5	9.8	26.7	84,0
0714 011	3 x 2 x 0,5	10.8	38.8	117,0
0714 012	4 x 2 x 0,5	11.8	50.9	143,5
0714 013	5 x 2 x 0,5	12.9	63.0	170,5
0714 014	6 x 2 x 0,5	14.1	75.2	197,7
0714 015	8 x 2 x 0,5	15.2	99.4	251,8
0714 016	10 x 2 x 0,5	17.3	123.7	305,7
0714 017	12 x 2 x 0,5	18.1	147.9	352,5
0714 018	16 x 2 x 0,5	20.9	196.5	469,4
0714 019	18 x 2 x 0,5	21.9	220.7	519,1
0714 020	24 x 2 x 0,5	25.3	293.5	687,2
0714 001	2 x 2 x 0,75	11.1	43.6	118,0
0714 021	3 x 2 x 0,75	11.7	63.0	152,0
0714 004	4 x 2 x 0,75	12.9	82.5	188,0
0714 022	5 x 2 x 0,75	14.1	101.9	225,0
0714 023	8 x 2 x 0,75	16.6	160.1	336,0
0714 024	10 x 2 x 0,75	19.3	198.9	426,5
0714 006	12 x 2 x 0,75	20.2	237.8	493,5
0714 025	16 x 2 x 0,75	23.3	315.4	652,5

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
0714 002	2 x 2 x 1,0	11.3	53.4	129,5
0714 026	3 x 2 x 1,0	12.1	77.7	170,0
0714 027	4 x 2 x 1,0	13.3	102.0	212,0
0714 028	5 x 2 x 1,0	14.8	126.3	260,5
0714 029	8 x 2 x 1,0	17.2	199.2	381,5
0714 030	10 x 2 x 1,0	20.0	247.8	483,5
0714 031	12 x 2 x 1,0	20.9	296.4	561,5
0714 003	2 x 2 x 1,5	12.4	78.7	163,5
0714 007	3 x 2 x 1,5	13.0	114.4	214,5
0714 005	4 x 2 x 1,5	14.7	150.2	277,0
0714 032	5 x 2 x 1,5	16.2	185.9	333,7
0714 033	8 x 2 x 1,5	19.2	293.1	510,7
0714 034	10 x 2 x 1,5	21.9	364.6	625,0
0714 008	2 x 2 x 2,5	13.3	116.9	211,5
0714 035	3 x 2 x 2,5	14.1	171.7	285,1
0714 009	4 x 2 x 2,5	15.7	226.5	369,6
0714 036	5 x 2 x 2,5	17.3	281.4	448,6
0714 037	7 x 2 x 2,5	19.3	445.9	614,5
0714 038	10 x 2 x 2,5	23.9	555.6	872,8

Other cross-sections and pair counts available on request.

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