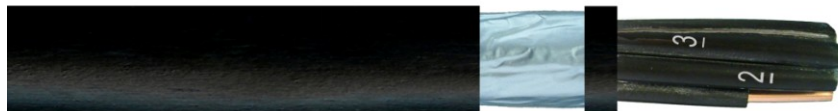


TECHNOKONTROL KS-Y(St)Y-Nr-O (9) 300/500 V
TECHNOKONTROL KS-Y(St)Yżo-Nr-O (9) 300/500 V**CONTROL AND POWER SUPPLY CABLES**Operating voltage
300/500 VTest voltage
3 kVTemp. range
fixed installation
from -30°C to +80°CTemp. range
during installation
from -5°C to +70°CBending radius
12xDFlame retardant
PN-EN 60332-1-2Flame retardant
PN-EN 60332-3-24Indoor
applicationOutdoor
application

UV resistance

EMC
Electromagnetic
compatibilityIncreased
oil resistance**APPLICATIONS**

TECHNOKONTROL KS-Y(St)Y-Nr-O (9) 300/500 V and **TECHNOKONTROL KS-Y(St)Yżo-Nr-O (9) 300/500 V** are overall shielded 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 is protected by an overall electrostatic shield against external electric interferences and prevents emission of interferences produced in the cable.

Sheathing PVC of high oxygen index is UV radiation and weather resistant, is self-extinguishing and flame retardant. The cables pass combustibility test according to PN-EN 60332-3 standard.

The cables are oil-resistant and designed for frequent contact with petroleum products, as in petrol stations and stores, where engine fuels and lubricants are pumped or handled.

The cables are suitable for fixed indoor and outdoor installations.

CONSTRUCTION

- bare annealed copper single wire round conductors, meeting requirements of class 1 per PN-EN 60228,
- black PVC insulation and white conductor numbers printed on it for identification, additional green-yellow protective conductor located in the outer layer in **TECHNOKONTROL KS-Y(St)Yżo-Nr-O (9) 300/500 V** cable,
- insulated conductors laid-up in a cable core,
- cable core wrapped in polyester tape,
- overall electrostatic shield incorporating aluminium-polyester tape and stranded annealed tinned copper drain wire,
- oil, petrol and UV radiation resistant and self-extinguishing (oxygen index bigger than 29%) PVC cable sheath, black RAL 9005, other colours also available.

TECHNOKONTROL KS-Y(St)Y-Nr-O (9) 300/500 V TECHNOKONTROL KS-Y(St)Yzo-Nr-O (9) 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	36.0	24.5	18.1	12.1	7.41	4.61
Capacitance between conductors at 1 kHz, appr.	nF/km	160	170	180	180	200	210

Operating voltage U ₀ /U	300/500 V	Operating temperature range	
Voltage test	3.0 kV rms	during operation	from - 30 to + 80°C
Inductance, approximate	0.7 mH/km	during installation	from - 5 to + 70°C
Insulation resistance, minimum	20 MΩ·km	Minimum bending radius	12 x cable diameter
Conductor temperature limit		Cable combustibility	flame retardant
in work conditions	+ 70°C	Combustibility tests	PN-EN 60332-1-2, IEC 60332-1-2
at short-circuit	+ 150°C		PN-EN 60332-3-24, IEC 60332-3-24 (cat. C)
		Oil resistance	PN-EN 60811-404

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
0980 003	2x0,5	6.2	14.4	57
0980 004	3x0,5	6.4	19.2	64
0980 005	4x0,5	6.9	24.0	74
0980 006	5x0,5	7.3	28.8	85
0980 007	7x0,5	7.8	38.4	100
0980 008	10x0,5	9.4	53.0	131
0980 009	14x0,5	10.1	72.0	162
0980 010	19x0,5	11.0	96.0	205
0980 011	24x0,5	12.6	120.0	250
0980 012	27x0,5	12.8	134.0	270
0980 013	30x0,5	13.3	149.0	295
0980 014	36x0,5	14.2	178.0	345
0980 015	2x0,75	6.6	21.6	69
0980 016	3x0,75	6.8	28.8	78
0980 017	4x0,75	7.3	36.0	91
0980 018	5x0,75	7.8	43.2	105
0980 019	7x0,75	8.3	58.0	126
0980 020	10x0,75	10.1	79.0	166
0980 021	14x0,75	10.9	108.0	210
0980 022	19x0,75	11.9	144.0	265
0980 023	24x0,75	13.7	180.0	325
0980 024	27x0,75	14.0	202.0	355
0980 025	30x0,75	14.4	223.0	385
0980 026	36x0,75	15.5	266.0	455
0980 001	2x1	6.9	28.8	80
0980 027	3x1	7.2	38.4	91
0980 028	4x1	7.7	48.0	106
0980 029	5x1	8.2	58.0	124
0980 030	7x1	8.8	77.0	150
0980 031	10x1	10.7	106.0	199
0980 032	14x1	11.5	144.0	255
0980 033	19x1	12.7	192.0	320

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
0980 034	24x1	14.6	240.0	395
0980 035	27x1	14.9	269.0	435
0980 036	30x1	15.4	298.0	470
0980 037	36x1	16.5	355.0	555
0980 038	2x1,5	7.8	43.2	106
0980 039	3x1,5	8.1	58.0	124
0980 040	4x1,5	8.7	72.0	146
0980 002	5x1,5	9.4	86.0	171
0980 041	7x1,5	10.1	115.0	210
0980 042	10x1,5	12.5	158.0	280
0980 043	14x1,5	13.5	216.0	360
0980 044	19x1,5	14.9	288.0	460
0980 045	24x1,5	17.3	360.0	565
0980 046	27x1,5	17.6	403.0	620
0980 047	30x1,5	18.7	446.0	695
0980 048	2x2,5	8.6	72.0	146
0980 049	3x2,5	9.0	96.0	172
0980 050	4x2,5	9.7	120.0	210
0980 051	5x2,5	10.5	144.0	245
0980 052	7x2,5	11.3	192.0	300
0980 053	10x2,5	14.1	264.0	405
0980 054	14x2,5	15.3	360.0	525
0980 055	19x2,5	16.9	480.0	675
0980 056	2x4	9.9	115.0	215
0980 057	3x4	10.5	154.0	255
0980 058	4x4	11.4	192.0	305
0980 059	5x4	12.3	230.0	365
0980 060	7x4	13.4	307.0	455
0980 061	10x4	16.8	422.0	615
0980 062	14x4	18.7	576.0	815

Other cross-sections and conductor counts available on request.
TECHNOKABEL S.A. reserves the right to change specifications without prior notice.