

YnTKSY, YnTKSYekw, YnTKSXekw

FIRE ALARM CABLES



Operating voltage
150 V



Test voltage
1,5 kV



Temp. range
during operation
- 30°C to + 80°C



Temp. range
during installation
from - 5°C to + 70°C



Bending radius
10xD



Flame retardant
PN-EN 60332-1-2



Indoor
application



EMC
Electromagnetic
compatibility

APPLICATIONS

YnTKSY, **YnTKSYekw** and **YnTKSXekw** cables are intended for fire alarm and fire automatic control systems also for data processing systems and for analogue or digital data transmission, all in industrial electronics applications.

The cables are certified by Scientific and Research Centre for Fire Protection - National Research Institute (Centrum Naukowo-Badawcze Ochrony Przeciwpowazarowej - PIB) at Józefów.

The cables are protected by an overall electrostatic shield against external electric interferences.

The cables are suitable for fixed indoor installations.

CONSTRUCTION - YnTKSY and YnTKSYekw

- bare annealed copper single wire round conductors of diameter 0.8 mm, 1.0 mm, 1.4 mm and 1.5 mm,
- PVC insulation - colours in accordance with PN-92/T-90321 standard,
- insulated conductors twisted into pairs or a quad,
- pairs laid-up into a cable core,
- cable core wrapped in a polyester tape,
- overall electrostatic shield incorporating a plastic laminated metal foil and a tinned copper drain wire in **YnTKSYekw** cable,
- special (oxygen index bigger than 29%) PVC cable sheath, red RAL 3000.

CONSTRUCTION - YnTKSXekw

- bare annealed copper single wire round conductors of diameter 1.05 mm,
- polyethylene (PE) insulation - colours in accordance with PN-92/T-90321 standard,
- żyły izolowane skręcone w pary lub w czwórkę,
- insulated conductors twisted into pairs or a quad,
- cable core wrapped in a polyester tape,
- overall electrostatic shield incorporating a plastic laminated metal foil and a tinned copper drain wire,
- special (oxygen index bigger than 29%) PVC cable sheath, red RAL 3000.

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CHARACTERISTICS

Cable type		YnTKSY				YnTKSYekw				YnTKSXekw
Conductor diameter	mm	0.8	1.0	1.4	1.5	0.8	1.0	1.4	1.5	1.05
DC loop resistance at 20°C, maximum	Ω/km	75	48	24	24	75	48	24	24	48
Capacitance between conductors at 1 kHz – maximum – average	nF/km	120	120	120	120	200	200	200	200	65
		100	100	100	100	140	140	140	140	63

Operating voltage	150 V	Operating temperature range	
Voltage test	1500 V rms	during operation	from - 30 to + 80°C
Insulation resistance, minimum	20 MΩ·km	during installation	from - 5 to + 70°C
Inductance, approximate	0,7 mH/km	Minimum bending radius	10 x cable diameter
		Cable combustibility	flame retardant
		Combustibility tests	PN-EN 60332-1-2
		Reference standards	AT-0603-0048/2011/2016 WT-TK-4 PN - 92/T-90320 PN - 92/T-90321

CE = the cable meets requirements of the low voltage directive 2014/35/EU

Product No.	Number of conductors x conductor diameter mm	Cable outer diameter (appr.) mm	Copper index kg/km	Cable weight (appr.) kg/km
YnTKSY				
0381 001	1x2x0,8	4.2	10.0	24.5
0381 007	1x4x0,8	4.8	20.0	39.0
0381 002	2x2x0,8	6.2	19.3	40.0
0381 003	3x2x0,8	6.5	30.0	57.5
0381 005	4x2x0,8	7.1	40.0	72.0
0381 006	5x2x0,8	8.6	50.0	86.0
0381 014	6x2x0,8	8.7	60.0	106
0381 021	7x2x0,8	8.7	67.0	119
0381 015	10x2x0,8	10.2	96.0	161
0381 008	1x2x1,0	4.8	15.5	32.0
0381 009	2x2x1,0	7.7	30.0	65.6
0381 017	5x2x1,0	9.9	75.4	135
0381 018	5x2x1,5	15.5	170	313
YnTKSYekw				
0382 001	1x2x0,8	4.4	11.0	27.0
0382 008	1x4x0,8	5.0	21.0	42.0
0382 004	2x2x0,8	6.4	21.5	46.5
0382 003	3x2x0,8	6.7	31.5	60.5
0382 005	4x2x0,8	7.3	41.5	74.5
0382 006	5x2x0,8	8.0	52.0	90.0

Product No.	Number of conductors x conductor diameter mm	Cable outer diameter (appr.) mm	Copper index kg/km	Cable weight (appr.) kg/km
0382 024	7x2x0,8	9.1	69.5	125
0382 007	10x2x0,8	10.8	102	165
0382 010	21x2x0,8	14.7	203	327
0382 018	25x2x0,8	15.9	241	382
0382 009	1x2x1,0	5.2	17.0	36.5
0382 015	2x2x1,0	7.9	33.0	70.0
0382 027	3x2x1,0	8.4	46.7	92.0
0382 019	5x2x1,0	10.1	76.6	138
0382 031	10x2x1,0	13.5	153	253
YnTKSXekw				
0380 001	1x2x1,05	6.7	18.5	48.5
0380 003	1x4x1,05	7.7	35.5	78.5
0380 005	1x2x1,4	7.2	31.2	66.8
0382 006	1x2x1,5	7.4	36.6	73.2

Other diameters and conductor counts available on request.

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