

TECHNOFLAME YnTKSY, YnTKSYekw, YnTKSXekw



Operating voltage
150 V



Test voltage
1,5 kV



Temp. range
fixed installation
from -40°C to +80°C



Temp. range
during installation
from -5°C to +50°C



Bending radius
10xD



Flame retardant
PN-EN 60332-1-2



Indoor
application



EMC
Electromagnetic
compatibility



Eca
PN-EN 13501-6

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 Przeciwpożarowej - 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 I YnTKSYekw

- bare annealed copper single wire round conductors of diameter 0.8; 1.0; 1.4; 1.5 mm²; 1.8; 2.3 i 2.8 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,
- verall 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 and 1.4 mm,
- polyethylene (PE) insulation - colours in accordance with PN-92/T-90321 standard,
- 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.



CHARACTERISTICS

Cable type	Unit	YnTKSY							YnTKSYekw							YnTKSXekw	
Conductor diameter	[mm] [mm ²]	0.8	1.0	1.4	1.5 mm ²	1.8	2.3	2.8	0.8	1.0	1.4	1.5 mm ²	1.8	2.3	2.8	1.05	1.4
DC loop resistance at 20°C, maximum	Ω/km	75	48	26	24.2	14.9	9.3	6.3	75	48	26	24.2	14.9	9.3	6.3	44	26
Mutual capacitance of pair at 1 kHz maximum	nF/km	120	120	120	120	120	120	120	150	150	150	150	150	150	150	65	65
Average		100	100	100	100	100	100	100	140	140	140	140	140	140	140	63	63

Operating voltage U ₀ /U	150 V
Voltage test	1500 V rms
Insulation resistance, minimum	200 MΩ·km
Inductance, approximate	0.7 mH/km
Operating temperature range	
for fixed installation	from - 40 to + 80°C
for movable installation	from - 5 to + 50°C
Minimum bending radius	10 x cable diameter
Cable combustibility	flame retardant

Combustibility tests	PN-EN 60332-1-2, PN-EN 60332-3-24, IEC 60332-3-24
Reference standards	CNBOP-PIB- KOT-2021/2026/0251-3701 edition 1, WT-TK-4
Class reaction to fire (PN-EN 13501-6)	Eca
KDWU declarations are available at	technokabel.com.pl
The cable meets requirements of the low voltage direction 2014/35/EU	

Product No.	Number of conductors x conductors cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²	mm	kg/km	kg/km
YnTKSY				
0381 001	1 x 2 x 0,8	4.0	9.7	24
0381 007	1 x 4 x 0,8	4.6	19.3	38
0381 002	2 x 2 x 0,8	5.9	19.3	43
0381 003	3 x 2 x 0,8	6.2	29.0	55
0381 005	4 x 2 x 0,8	6.8	38.6	69
0381 006	5 x 2 x 0,8	7.7	48.3	87
0381 014	6 x 2 x 0,8	8.4	57.9	102
0381 021	7 x 2 x 0,8	8.4	67.6	113
0381 015	10 x 2 x 0,8	10.1	96.5	155
0381 008	1 x 2 x 1,0	4.8	15.1	34
0381 016	1 x 4 x 1,0	5.5	30.2	56
0381 009	2 x 2 x 1,0	7.2	30.2	62
0381 023	3 x 2 x 1,0	7.9	45.2	86
0381 028	4 x 2 x 1,0	8.6	60.3	108
0381 017	5 x 2 x 1,0	9.5	75.4	130
0381 030	7 x 2 x 1,0	10.4	105.6	203

Product No.	Number of conductors x conductors cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²	mm	kg/km	kg/km
0381 031	10 x 2 x 1,0	12.8	150.8	208
0381 024	1 x 2 x 1,4	6.3	29.6	58
0381 043	1 x 4 x 1,4	7.6	59.1	115
0381 032	2 x 2 x 1,4	10.1	59.1	192
0381 033	3 x 2 x 1,4	10.9	88.7	223
0381 034	4 x 2 x 1,4	12.0	118.2	263
0381 035	5 x 2 x 1,4	13.3	147.8	308
0381 013	1 x 2 x 1,5 mm ²	6.7	33.9	63
0381 020	1 x 4 x 1,5 mm ²	8.0	67.9	113
0381 029	2 x 2 x 1,5 mm ²	10.8	67.9	131
0381 036	3 x 2 x 1,5 mm ²	11.5	101.8	248
0381 037	4 x 2 x 1,5 mm ²	12.7	135.7	292
0381 018	5 x 2 x 1,5 mm ²	14.2	169.6	277
0381 038	1 x 2 x 1,8	7.6	48.9	86
0381 044	1 x 4 x 1,8	8.8	97.7	166
0381 039	2 x 2 x 1,8	12.0	97.7	281
0381 040	3 x 2 x 1,8	12.8	146.6	325

Product No.	Number of conductors x conductors cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
0381 041	4 x 2 x 1,8	14.3	195.4	392
0381 042	5 x 2 x 1,8	15.9	244.3	462
YnTKSYekw				
0382 002	1 x 2 x 0,8	4.2	10.9	27
0382 008	1 x 4 x 0,8	4.8	20.5	41
0382 004	2 x 2 x 0,8	6.1	20.5	46
0382 003	3 x 2 x 0,8	6.4	30.2	59
0382 005	4 x 2 x 0,8	7.0	39.8	74
0382 006	5 x 2 x 0,8	7.9	49.5	92
0382 024	7 x 2 x 0,8	8.6	68.8	118
0382 007	10 x 2 x 0,8	10.3	97.7	161
0382 034	14 x 2 x 0,8	11.8	136.3	219
0382 038	20 x 2 x 0,8	13.7	194.2	298
0382 010	21 x 2 x 0,8	14.2	203.9	318
0382 018	25 x 2 x 0,8	15.3	242.5	371
0382 037	30 x 2 x 0,8	16.5	290.7	435
0382 009	1 x 2 x 1,0	5.0	16.3	38
0382 021	1 x 4 x 1,0	5.7	31.4	59
0382 015	2 x 2 x 1,0	7.6	31.4	70
0382 027	3 x 2 x 1,0	8.1	46.4	91
0382 033	4 x 2 x 1,0	8.8	61.5	113
0382 019	5 x 2 x 1,0	9.7	76.6	136
0382 040	7 x 2 x 1,0	10.8	106.8	183
0382 031	10 x 2 x 1,0	13.0	152.0	251

Product No.	Number of conductors x conductors cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
0382 025	1 x 2 x 1,4	6.5	30.8	62
0382 053	1 x 4 x 1,4	7.8	60.3	107
0382 042	2 x 2 x 1,4	10.3	60.3	120
0382 043	3 x 2 x 1,4	11.1	89.9	166
0382 044	4 x 2 x 1,4	12.2	119.4	209
0382 045	5 x 2 x 1,4	13.5	149.0	253
0382 026	1 x 2 x 1,5 mm ²	6.9	35.1	68
0382 052	1 x 4 x 1,5 mm ²	8.2	69.1	118
0382 036	2 x 2 x 1,5 mm ²	11.0	69.1	137
0382 039	3 x 2 x 1,5 mm ²	11.7	103.0	183
0382 046	4 x 2 x 1,5 mm ²	12.9	136.9	230
0382 047	5 x 2 x 1,5 mm ²	14.4	170.9	286
0382 048	1 x 2 x 1,8	7.8	50.1	91
0382 054	1 x 4 x 1,8	9.0	98.9	154
0382 049	2 x 2 x 1,8	12.2	98.8	178
0382 050	3 x 2 x 1,8	13.0	147.8	240
0382 041	4 x 2 x 1,8	14.5	196.5	313
0382 051	5 x 2 x 1,8	16.1	245.5	380
YnTKSXekw				
0380 001	1 x 2 x 1,05	6.3	17.8	46
0380 002	10 x 2 x 1,05	12.6	175.5	241
0380 003	1 x 4 x 1,05	7.7	35.8	77
0380 005	1 x 2 x 1,4	7.2	31.2	67
0380 008	1 x 4 x 1,4	7.8	119.4	167

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