

# YnTKSY Fire alarm cables for fixed installations



Data transmission and telecommunication cables

## Technical data:

**Thermal parameters:**  
**Operating temperature:** -40 °C to 70 °C  
**Min. installation temperature:** -5 °C

**Electrical parameters:**  
**Operating voltage:** 150V  
**Test voltage:**  
 AC 1500 V  
 DC 2250 V

**Insulation resistance:** >200MΩxkm  
**Pair loop resistance at 20 °C (max.):**  
 0,8mm: 75,0Ω/km  
 1,0mm: 48,0Ω/km  
 1,4mm: 26,6Ω/km  
 1,5mm: 24,2Ω/km  
 1,8mm: 14,96Ω/km  
 2,3mm: 9,60Ω/km  
 2,8mm: 6,40Ω/km  
**Conductor capacitance:**  
 max. 120nF/km  
 average 100nF/km  
**Inductance:** ca.0,7mH/km

**Mechanical parameters:**  
**Min. bending radius:** 10xØ

## Design:

**Conductors:** solid copper conductor, class 1  
**Insulation:** special PVC  
 acc. PN-92/T-90320 (90321)  
**Core colours:** cores twisted in pairs, pairs twisted together  
**Outer sheath:** special PVC, highly flame retardant and self-extinguishing  
 EN 60332-1-2, EN 60332-3-24, IEC 60332-3, cat. C,  
 oxygen index >29; colour: red

## Application:

Special cables for connections of telephone switchboards and data transmission devices, using analogue and digital signals for control and fire alarm installations. Cables are used mainly as transmission lines and power line for fire alarm systems' devices (sensors, linear modules) and for autonomous fire fighting control systems and smoke extraction systems. Cables are suitable for installations used at the „0“ moment of fire detection (moment of fire detection by the fire detection centre). Cables are intended for transmission of signal to auxiliary devices, which in case of fire detection are run by the central fire alarm (power cut-off, bringing down the lifts/elevators, ventilation cut-off). Cables classified according to **EN 50575 (CPR)**.

### Core colours:

Pair no.	Cores colours	
	a	b
1	white	blue
2		orange
3		green
4		brown
5		grey
6		blue
7		orange
8	red	green
9		brown
10		grey
11		blue
12		orange
13		green
14		brown
Quad number	white	blue
1	white	orange

# YnTKSY

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Cat no.	n x 2 x mm	Outer diameter* [mm]	Approximate cable weight [kg/km]
TN0001	1x2x0,8	4,0	22
TN0002	1x4x0,8	4,6	35
TN0003	2x2x0,8	5,4	38
TN0004	3x2x0,8	6,5	55
TN0005	4x2x0,8	7,0	70
TN0006	5x2x0,8	7,7	83
TN0009	6x2x0,8	8,1	100
TN0405	7x2x0,8	9,1	117
TN0402	10x2x0,8	10,4	161
TN0007	1x2x1,0	4,7	31
TN0013	1x4x1,0	6,0	59
TN0008	2x2x1,0	7,0	58
TN0010	3x2x1,0	7,8	83
TN0014	4x2x1,0	8,3	109
TN0404	5x2x1,0	9,5	140
TN0015	7x2x1,0	10,7	180
TN0016	10x2x1,0	12,2	245
TN0017	12x2x1,0	14,7	295
TN0018	14x2x1,0	16,0	340
TN0019	1x2x1,4	6,3	56
TN0020	1x4x1,4	7,3	96
TN0021	2x2x1,4	9,4	107
TN0022	3x2x1,4	10,3	150
TN0023	4x2x1,4	12,2	195
TN0024	5x2x1,4	13,4	235
TN0025	7x2x1,4	14,8	315
TN0026	10x2x1,4	17,8	450
TN0027	1x2x1,5mm <sup>2</sup>	6,3	56
TN0028	1x4x1,5mm <sup>2</sup>	7,3	96
TN0029	2x2x1,5mm <sup>2</sup>	9,4	107
TN0030	3x2x1,5mm <sup>2</sup>	10,3	150
TN0031	4x2x1,5mm <sup>2</sup>	12,2	195
TN0032	5x2x1,5mm <sup>2</sup>	13,4	235
TN0033	7x2x1,5mm <sup>2</sup>	14,8	315
TN0034	10x2x1,5mm <sup>2</sup>	17,8	450
TN0035	1x2x1,8	7,5	82
TN0036	1x4x1,8	8,9	147
TN0037	2x2x1,8	11,2	160
TN0038	3x2x1,8	12,6	225
TN0039	4x2x1,8	14,7	290
TN0040	5x2x1,8	16,2	355
TN0041	7x2x1,8	18,3	495
TN0042	10x2x1,8	21,6	680
TN0043	1x2x2,3	8,9	122
TN0044	1x4x2,3	10,4	217
TN0045	2x2x2,3	13,3	235
TN0046	3x2x2,3	14,7	330
TN0047	4x2x2,3	17,6	450
TN0048	5x2x2,3	19,4	550
TN0049	7x2x2,3	21,5	740
TN0050	10x2x2,3	25,8	1050
TN0051	1x2x2,8	10,1	168
TN0052	1x4x2,8	12,0	310
TN0053	2x2x2,8	15,2	325
TN0054	3x2x2,8	16,9	465
TN0055	4x2x2,8	20,2	625
TN0056	5x2x2,8	22,3	765
TN0057	7x2x2,8	25,2	1060
TN0058	10x2x2,8	30,1	1510

\*Outer diameter tolerance: +/-5%  
Cable Factory BITNER reserves the right to modify the specifications without prior notice