# YnTKSYekw Screened fire alarm cables for fixed installations

RoHS 2015/863/EU

LVD 2014/35/EU

CPR

CPR 305/2011

24 months warranty

interial application | EN 60332-1-2 | >29 oxygen index | CNBOP PIB certificate

## Technical data:

***Thermal parameters:***

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

***Electrical parameters:***

**Operating voltage:** 150V
**Test voltage:**
AC 1500V
DC 2250V
**Insulation resistance:** >200MΩxkm
**Pair loop resistance at 20 °C (maximum):**
0,8 mm - 75,0 Ω/km
1,0 mm - 48,0 Ω/km
1,4 mm - 26,6 Ω/km
1,5 mm - 24,2 Ω/km
1,8 mm - 14,96 Ω/km
2,3 mm - 9,60 Ω/km
2,8 mm - 6,40 Ω/km
**Conductor capacitance:**
max. 150nF/km
average 140nF/km
**Inductance:** ca.0,7mH/km

***Mechanical parameters:***

**Min. bending radius:** 10xØ

## Design:

**Conductors:** solid copper conductor, class 1
**Insulation:** special PVC
**Core colours:** acc. PN-92/T-90320 (90321)
**Core arrangement:** cores twisted in pairs, pairs twisted together
**Screen:** aluminium backed polyester tape with tinned copper drain wire
**Outer sheath:** special PVC, highly flame retardant and self-extinguishing EN 60332-1, EN 60332-3-24, IEC 60332-3-24, 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) . Electrostatic screen protects the cables against external electromagnetic fields' interferences. 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 | red | blue |
| 7 | | orange |
| 8 | | green |
| 9 | | brown |
| 10 | | grey |
| 11 | black | blue |
| 12 | | orange |
| 13 | | green |
| 14 | | brown |
| 15 | | grey |
| 16 | yellow | blue |
| 17 | | orange |
| 18 | | green |
| 19 | | brown |
| 20 | | grey |
| Quad number | | |
| 1 | white | blue |
| | white | orange |

# YnTKSYekw Screened fire alarm cables for fixed installations

| Cat no. | n x 2 x mm | Outer diameter* [mm] | Approximate cable weight [kg/km] |
|---|---|---|---|
| TN0100 | 1x2x0,8 | 4,2 | 25 |
| TN0101 | 1x4x0,8 | 4,8 | 41 |
| TN0102 | 2x2x0,8 | 5,8 | 43 |
| TN0103 | 3x2x0,8 | 6,6 | 60 |
| TN0104 | 4x2x0,8 | 7,1 | 75 |
| TN0105 | 5x2x0,8 | 7,9 | 90 |
| TN0112 | 6x2x0,8 | 8,5 | 107 |
| TN0106 | 7x2x0,8 | 9,2 | 122 |
| TN0107 | 10x2x0,8 | 10,2 | 168 |
| TN0113 | 12x2x0,8 | 12,3 | 197 |
| TN0114 | 14x2x0,8 | 13,3 | 225 |
| TN0115 | 20x2x0,8 | 14,3 | 307 |
| TN0108 | 1x2x1,0 | 4,9 | 35 |
| TN0408 | 1x4x1,0 | 5,9 | 60 |
| TN0109 | 2x2x1,0 | 7,1 | 65 |
| TN0411 | 3x2x1,0 | 8,0 | 90 |
| TN0116 | 4x2x1,0 | 8,5 | 115 |
| TN0412 | 5x2x1,0 | 9,7 | 145 |
| TN0117 | 7x2x1,0 | 10,9 | 188 |
| TN0406 | 10x2x1,0 | 12,4 | 255 |
| TN0118 | 12x2x1,0 | 15,4 | 305 |
| TN0119 | 14x2x1,0 | 16,6 | 350 |
| TN0120 | 1x2x1,4 | 7,0 | 62 |
| TN0121 | 1x4x1,4 | 7,9 | 101 |
| TN0122 | 2x2x1,4 | 10,3 | 123 |
| TN0123 | 3x2x1,4 | 10,9 | 155 |
| TN0124 | 4x2x1,4 | 12,8 | 205 |
| TN0125 | 5x2x1,4 | 14,0 | 245 |
| TN0126 | 7x2x1,4 | 15,4 | 320 |
| TN0127 | 10x2x1,4 | 18,4 | 460 |
| TN0407 | 1x2x1,5mm$^2$ | 6,8 | 62 |
| TN0409 | 1x4x1,5mm$^2$ | 7,9 | 101 |
| TN0128 | 2x2x1,5mm$^2$ | 10,3 | 133 |
| TN0129 | 3x2x1,5mm$^2$ | 11,5 | 160 |
| TN0130 | 4x2x1,5mm$^2$ | 12,8 | 205 |
| TN0131 | 5x2x1,5mm$^2$ | 14,0 | 245 |
| TN0132 | 7x2x1,5mm$^2$ | 15,4 | 320 |
| TN0133 | 10x2x1,5mm$^2$ | 18,4 | 460 |
| TN0134 | 1x2x1,8 | 8,2 | 88 |
| TN0135 | 1x4x1,8 | 9,6 | 155 |
| TN0136 | 2x2x1,8 | 12,1 | 170 |
| TN0137 | 3x2x1,8 | 13,2 | 235 |
| TN0138 | 4x2x1,8 | 15,3 | 300 |
| TN0139 | 5x2x1,8 | 16,8 | 365 |
| TN0140 | 7x2x1,8 | 18,9 | 505 |
| TN0141 | 10x2x1,8 | 22,2 | 695 |
| TN0142 | 1x2x2,3 | 9,5 | 130 |
| TN0143 | 1x4x2,3 | 11,0 | 225 |
| TN0144 | 2x2x2,3 | 13,9 | 245 |
| TN0145 | 3x2x2,3 | 15,4 | 340 |
| TN0146 | 4x2x2,3 | 18,2 | 460 |
| TN0147 | 5x2x2,3 | 20,0 | 560 |
| TN0148 | 7x2x2,3 | 22,1 | 750 |
| TN0149 | 10x2x2,3 | 24,1 | 1060 |
| TN0150 | 1x2x2,8 | 10,7 | 175 |
| TN0151 | 1x4x2,8 | 12,6 | 320 |
| TN0152 | 2x2x2,8 | 15,9 | 330 |
| TN0153 | 3x2x2,8 | 17,9 | 470 |
| TN0154 | 4x2x2,8 | 20,8 | 630 |
| TN0155 | 5x2x2,8 | 23,3 | 770 |
| TN0156 | 7x2x2,8 | 25,8 | 1070 |
| TN0157 | 10x2x2,8 | 30,7 | 1520 |

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