

YnTKSYekw

Screened fire alarm cables for fixed installations



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		blue
7	orange	
8	red	green
9		brown
10		grey
11		blue
12	orange	
13	black	green
14		brown
15		grey
16		blue
17	orange	
18	yellow	green
19		brown
20		grey
Quad number		
1	white	blue
	white	orange

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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%

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