FIRE ALARM CABLES,
FIRE RESISTANT ACCORDING IEC 60332-3

Signal cable with flexible copper wires, PVC insulation and sheath, Al foil screen, fire resistant, for nominal voltage 220 V



Application

As signal cables in fire alarm installations, operating at nominal voltage 220 V. The cables are with fire resistant PVC materials for insulation and sheath, suitable for indoor fixed installation, in objects with the presence of fire risk. Interference- free transmission of signals and pulses is assured by the high degree of screening.

Technical data

- Manufactured acc. to to the technical specification of GAMAKABEL
- Nominal voltage 220V
- Maximal voltage: 450 V
- Test voltage : 2 kV
- Insulation resistance at 20 °C: min 200 MΩ x km
- Conductor temperature: max. +70 °C
- Permissible conductor temperature at short circuit for 5s max. +160°C
- Temperature range : - 25°C up to +70°C
- Minimum temperature during installation: -5°C
- Minimum bending radius: 12 x cable diameter
- Flame test: Flame retardant according IEC 60332-1 (EN 50265-2-1) and IEC 60332-3, Category C(EN50266-2);
- Outer sheath colour - red

Cable design

- Copper conductors class 5 according to IEC 60228
- Insulation: PVC, type TI1 according HD 21 fire resistant with oxygen index – min. 28%
- Inner sheath: Polyester foil
- Shielding overall Aluminium/Polyester foil – 100%
- Drainage wire tinned copper
- Outer sheath: PVC,type TM1 according HD 21, fire resistant with oxygen index – min. 28%

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Core identificatio

Number of cores:

- 2 wires - black, red;
- 3 wires - black, red, blue;
- 4 wires - black, red, blue, white

Number of Conductors and Cross Section	Outer Diameter of Cable	Copper Weight	Weight of Cable	Number of Conductors and Cross Section	Outer Diameter of Cable	Copper Weight	Weight of Cable
No x mm^2	mm	kg/km	kg/km	No x mm^2	mm	kg/km	kg/km
2 x 0,50	4,70	12,5	30	2 x 1,00	5,8	22,1	46
3 x 0,50	4,90	17,3	36	3 x 1,00	6,1	31,7	58
4 x 0,50	5,20	22,1	44	4 x 1,00	6,6	41,3	73
2 x 0,75	5,6	17,3	40	2 x 1,50	6,7	31,7	60
3 x 0,75	5,8	24,5	50	3 x 1,50	7,1	46,1	79
4 x 0,75	6,3	31,7	63	4 x 1,50	7,7	60,5	100

Gamakabel