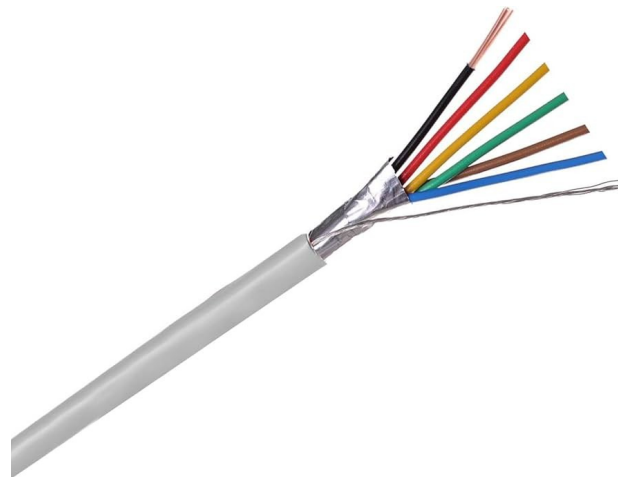


# Alarm Cable



RoHS , REACH & CE Directives



Ambient installation T°  
C range  
-10 + 50 °C



Operating temp.  
-20 + 60 °C



Storage temperature  
range  
-20 + 70 °C



Flame retardant  
IEC 60332-1



Smoke density

## Application:

Alarm cable is a low-voltage, multi-conductor cable commonly used for connecting components in security and alarm systems, such as control panels, motion detectors, door/window sensors, and keypads. Also is used in Connecting motion sensors (PIR), magnetic contacts, and keypads to the main control panel.Used in installations requiring multiple connections per device, often with shielded variants to protect against electromagnetic interference.Used for wiring sensors in fire security systems. Suitable for other signaling applications, such as

access control and building management systems. Often used in, or as, alarm cabling in buildings requiring Fire Certification (e.g., CPR EN 50575).

### Construction:

|                              |                               |
|------------------------------|-------------------------------|
| Conductor:                   | Stranded copper               |
| No. of strands x Strand size | 7 x 0.185 mm                  |
| Conductor size Nominal       | 0.22 mm <sup>2</sup>          |
| Insulation material          | PVC                           |
|                              | Min. radial thickness 0.15 mm |
|                              | Concentricity ≥ 80 %          |
|                              | Diameter ≥ 1.25 mm            |
| Shielding                    | Aluminium-Polyester tape      |
| Jacket/Sheath                | Material PVC                  |
|                              | Min. radial thickness 0.4 mm  |
|                              | Concentricity ≥ 80 %          |
|                              | Colour White (RAL 9003)       |

### Core identification:

|         |  |
|---------|--|
| 2 Core: | ○ White ● Red                                  |
| 3 Core: | ○ White ● Red ● Yellow                         |
| 4 Core: | ○ White ● Red ● Yellow ● Green                 |
| 5 Core: | ○ White ● Red ● Yellow ● Green ● Grey          |
| 6 Core: | ○ White ● Red ● Yellow ● Green ● Grey ● Orange |

Larger sizes: 6 Core colours + following colours in addition

|          |                   |
|----------|-------------------|
| 7 Core : | ○ Light Blue      |
| 8 Core:  | ● Brown           |
| 10 Core: | ● Violet ● Black  |
| 12 Core: | ● Sky blue ● Pink |

### Electrical Characteristics:

|                              |  |
|------------------------------|--|
| Conductor resistance at 20°C | Ω/km ≤ 155   |
| Core spark test voltage      | V 3000 a.c   |
| Insulation resistance        | MΩ.km ≥ 500  |
| Voltage test                 | V 500 a.c RMS, or direct current, between each Insulated conductor, for 1 min. |

### Physical Characteristics

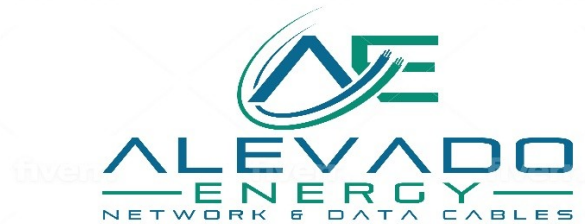
|                    |              |
|--------------------|--------------|
| Min. Bend radius   | 15 x OD      |
| Temperature rating | -0°C to 70°C |

### Standards

|                       |                             |
|-----------------------|-----------------------------|
| Flame retardant:      | EN 60332-1-2                |
| Low Smoke Generation: | EN 61034-2                  |
| RoHS Compliant:       | Yes                         |
| CE Compliant:         | 2014/35/EU, CPR ( 305/2011) |

**Cable Dimensions:**

| <b>Size of Alarm cable</b> | <b>Nominal Cable Diameter (mm)</b> | <b>Nominal Cable Weight ( kg/km)</b> | <b>Packaging m</b> |
|----------------------------|------------------------------------|--------------------------------------|--------------------|
| 2 x 0.22                   | 3.9                                | 17                                   | 100 / 500          |
| 3 x 0.22                   | 4.3                                | 22                                   | 100 / 500          |
| 4 x 0.22                   | 4.6                                | 25                                   | 100 / 500          |
| 5 x 0.22                   | 4.9                                | 30                                   | 100 / 500          |
| 6 x 0.22                   | 5.3                                | 36                                   | 100 / 500          |
| 8 x 0.22                   | 5.7                                | 44                                   | 100 / 500          |
| 9 x 0.22                   | 6.0                                | 49                                   | 100 / 500          |
| 10 x 0.22                  | 6.3                                | 53                                   | 100 / 500          |
| 12 x 0.22                  | 6.7                                | 59                                   | 100 / 500          |



believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.

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## Technical Data Sheet