# F3051-0500

## Alarmline II Analogue EN LHD Cable w/ Nylon Sheath, 500 m

### General

The F3051-0500 is an analogue linear heat detection cable in a Nylon outer sheath, supplied in 500m lengths. The nylon outer sheath provides additional UV protection making it suitable for external applications where it may be subjected to sunlight. It also provides protection against the elements and some chemicals.

In temperature sensitive environments early detection of an abnormal change is crucial to protect safety of life, critical processes and reduce losses. The Alarmline II analogue range of linear heat detection cable use exceptionally durable linear heat detection technologies which provide extensive and continuous coverage, is easy to install and fully integrate with building management systems. The products offer an enviable set of features bringing enhanced benefits and increased safety to the fire protection industry worldwide.

### Fast Response Time

This unique sensor cable and its method of control continuously responds to changes in temperature. The technology offers the facility to programme an early warning pre-alarm as well as the specified alarm temperature. If the temperature surrounding the cable reaches the pre-alarm point, the control unit triggers a warning giving the user time to survey the area at risk. Only when the temperature reaches the specified set alarm point will the control unit trigger full alarm.

### The Controller

The optional two stage programmable alarm settings make the system and method of overheat detection incredibly flexible and ideal for use in a variety of different environments and applications. The technology automatically compensates for changes in the ambient temperature to maintain the accuracy of alarm temperature as well as offering up to 500 metres of continuous detection per control unit.

Two control units are available. One is a self-contained unit or, for finer control, a version requiring a PC prevents uninvited system access. Both designs are compatible with any conventional or addressable fire alarm panel or other building management system.

### Reset and Reuse

Analogue LHD cable is “self-restorable” which means it not always necessary to replace the cable after an incident. Once the alarm has been triggered and depending on the severity of the incident the system can simply be reset with minimum disruption and inconvenience.



### Details

- RoHS compliant and CE certified to meet end user specifications
- Open and short circuit detection reduces the risk of false alarms
- Optional pre-alarm setting allows the user to manage risk more effectively
- Cable based sensing allows detection at the point of risk
- Low installation and maintenance costs reduce total cost of ownership
- Suitable for installation in hazardous areas

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## Technical specifications

### General

| | |
|---|---|
| Compatibility | AAECU |
| Alarm levels | Configurable |

### Electrical

| | |
|---|---|
| Operating voltage | 0 to 20 VAC<br>0 to 30 VDC |
| No. of cable cores | 4 |

### Conductor

| | |
|---|---|
| Core colours | Red, White, Clear, Clear |

### Physical

| | |
|---|---|
| Physical dimensions | 5.50mm +/- 0.075mm (0.217" +/- 0.003") |
| Net weight | 16.30 kg |
| Mounting type | Cable mount |

### Environmental

| | |
|---|---|
| Operating temperature | -40 to +125°C, limits<br>-40 to +90°C, continuous |
| Relative humidity | 0 to 99% noncondensing |
| Environment | Indoor, Outdoor |

### Regulatory

| | |
|---|---|
| Certification | CE |

### Mechanical

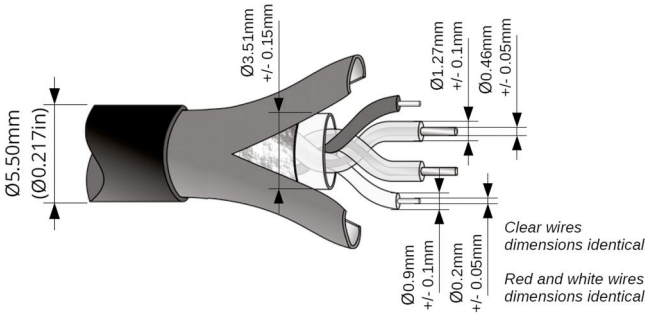
| | |
|---|---|
| Outside diameter (Nominal) | 5.50mm +/- 0.075mm (0.217” +/-0.003”) |
| Zone length (min to max) | 30.5m to 500m |

### Detection

| | |
|---|---|
| Ambient Temperature up to 30°C | Alarm Temperature - 54°C |
| Ambient Temperature up to 47°C | Alarm Temperatures - 64°C / 72°C / 79°C |
| Ambient Temperature up to 69°C | Alarm Temperatures - 86°C / 100°C |

### Compatible products

| Category | Reference | Description |
|---|---|---|
| Detection device | AAECU | AlarmLine II Analogue EN Control Unit |




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Last updated on 7 April 2026 - 11:06