# AD218-0100

## Alarmline II Digital LHD Cable 218°C (424°F) - 100 m (328 ft.)

### General

The AD218-0100 is a Digital Linear Heat Detection (LHD) cable with a 218°C (424°F) fixed temperature activation rating.

The AD range of digital sensor cables provides a very simple fixed temperature heat detection system which can be used in many applications where other forms of detection are not suitable.

### Operation

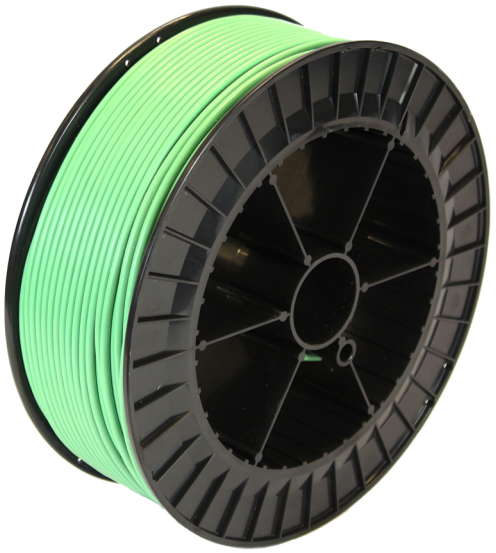
The AD range of digital LHD cables contains a pair of twisted, low resistance, tri-metallic conductors sheathed with advanced temperature sensitive polymers. The cable operates by softening the insulation of the conductors, the tension of the twisted conductors then causes the two cores to fuse together. The sensor cable provides a simple switch operation which when used with a combination of end-of-line (EOL) monitoring and alarm trigger resistors can signal an alarm to any fire monitoring equipment through any monitored input i.e. conventional detection zone or addressable interface unit.

### Location Control Unit

Additional to the LHD sensor cable, an optional digital location control unit which monitors the sensor cable and can identify along the length of the sensor cable where an alarm condition has occurred, is also available.

### Cable fixings for all applications

A range of 'edge' ,'A' , 'P' , and 'T' clips allow the cable to be properly installed. The clips provide heat insulation as well as holding the cable at the correct distance from cable trays, steel works, ceilings and walls.



### Details

- cUL/UL 521/FM approved
- Detection along total cable length
- Simple maintenance free installation
- Suitable for use in hazardous areas
- RoHS Compliant

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## Technical specifications

### Electrical

| | |
|---|---|
| Operating voltage | 0 to 70 VAC, 0 to 100 VDC |
| No. of cable cores | 2 |
| Insulation rating | 5 kV tested protective outer coat |

### Conductor

| | |
|---|---|
| Resistance | 90 Ω/km (27.4 Ω/1000 ft.) |
| Capacitance | <85 pf/m (<26 pf/ft.) |
| Inductance | <2.00 µH/m (<0.61 µH/ft.) |

### Physical

| | |
|---|---|
| Physical dimensions | 5 x 100 m (0.196 in. x 328 ft.) (Ø x L) |
| Net weight | 4.25 kg (9.37 lb.) |
| Shipping weight | 7.05 kg (15.54 lb.) |
| Colour | Green |
| Mounting type | Cable mount |
| Material (body) | Silicone |
| Bend radius | 63.5 mm (2.5 in.) min., extended to 127 mm (5 in.) for low temperature environments |

### Environmental

| | |
|---|---|
| Operating temperature | -40 to 170°C (-40 to 338°F) (Ambient)<br>218°C (424°F) per UL listing (Alarm) |
| Relative humidity | 0 to 100% noncondensing |
| Environment | Indoor, Outdoor |

### Regulatory

| | |
|---|---|
| Certification | CE, FM, UL |

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