AD218-0500

Alarmline II Digital LHD Cable 218°C (424°F), 500 m (1640 ft.)

General

The AD218-0500 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 70VAC, 0 to 100VDC
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 mm x 500 m (0.196 in. x 1640 ft.) (Ø x L)
Net weight	21.25 kg (46.85 lb.)
Shipping weight	24.39 kg (53.77 lb.)
Colour	Green
Mounting type	Cable mount
Bend radius	63.5 mm (2.5 in.) min., extended to 127 mm (5 in.) for low temperature environments
Material	Silicon rubber

Environmental

Operating temperature	-40 to +170°C (-40 to 338°F) (Ambient) 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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