

Digital Linear Heat Detection Cable, 105° with Polypropylene Sheath

Alarmline II Series



Overview

The Digital Linear Heat Detection (LHD) cable with a 105°C fixed temperature activation rating has a polypropylene outer sheath providing increased chemical protection in caustic environments. It is supplied in 100m, 500m and 1,000m lengths.

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, ie. 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.

Standard Features

- cUL/UL 521 approved
- FM approved (Class 3210)
- Up to 3,000m per zone
- Detection along total cable length
- Optional extrusions for different environments
- Simple maintenance free installation
- Suitable for use in hazardous areas



Australia & New Zealand

Phone: 1800 672 171
Outside Australia: +61 3 9518 5588
Email: firesecuritycs@carrier.com
Web: www.kidde.com.au

Head Office

10 Ferntree Place
Notting Hill, Victoria 3168
Australia

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Specifications

	100m	500m	1,000m
Mechanical			
Outside diameter (Nominal)		4.44mm ± 0.12mm	
No of cores		2	
Colour		White	
Weight	2.72kg	13.6kg	27.2kg
Electrical			
Operating voltage		0 to 30VAC, 0 to 42 VDC	
Conductor resistance		~ 100 ohms/km per leg (30.4 ohms/kft)	
Capacitance		88 to 150pF/m	
Inductance		540 to 1050nH/m	
Environmental			
Ambient temperature (max)		69°C	
Relative humidity		0% to 100%	

Ordering information

Part number	Description
AD105P-0100	Alarmline II Digital LHD Cable 105°C with Polypropylene Sheath - 100m
AD105P-0500	Alarmline II Digital LHD Cable 105°C with Polypropylene Sheath - 500m
AD105P-1000	Alarmline II Digital LHD Cable 105°C with Polypropylene Sheath - 1000m
ADLCU	Linear Heat Detection, Digital LHD Control Unit