



Linear Heat Detection Cable (LHD)

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ISO 9001: 2008

International
Standards
Certifications
QAC/R64/0012

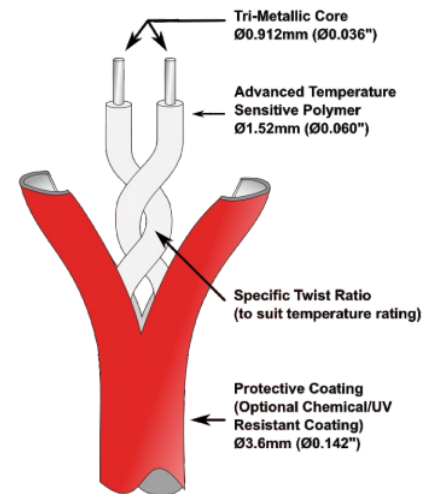
Product Overview:

Pertronic Industries Linear Heat Detection Cable (LHD) is designed for use where traditional point Heat detectors are unsuitable.

LHD is a fixed temperature sensor capable of initiating an Alarm once its rated temperature has been exceeded.

It consists of two tri-metallic conductors twisted together to keep them under mechanical tension. Each conductor is individually coated in advanced, temperature sensitive polymer that detects Heat conditions anywhere along its length.

It is not required that a specific length be heated in order to initiate an Alarm and it therefore provides the advantage of line coverage with point sensitivity.



Features:

- ▶ Suitable for use with Pertronic NZS 4512:2010 conventional zones of Loop Responder, Apartment Module, F16e, F4 and F1
- ▶ Simple installation, using standard 10 kΩ EOL resistor and one Alarm resistor in series with the LHD cable
- ▶ Can be used for Hazardous areas with Galvanic Isolator
- ▶ Four temperature ranges:

68 °C	NZS 4512-2010 – Red
78 °C	NZS 4512-2010 – Yellow
88 °C	NZS 4512-2010 – Green
105 °C	NZS 4512-2010 – Green (High)
- ▶ Protective Outer Coating: PVC stocked – Nylon by indent
- ▶ International Approvals: CE marked, RoHS compliant, UL, FM, GOST-R
- ▶ Available: 200 m and 500 m drums
- ▶ Maximum Zone Length: 3,000 m

Typical Applications:

Industry Sectors: Tunnels, Mining, Manufacturing, Warehousing, Cold Stores, Communications and General Industry, etc.

Industry Applications: Cable Trays, Conveyor Belts, Rack Storage, Floating Roof Storage Tanks, Area Protection, Cool Store and Freezer to -40°C, Hazardous Areas.

Specification:

- ▶ Construction: Dual insulated, twisted pair of tri-metallic cores
- ▶ Insulation: 1 kV tested protective outer coat
- ▶ Wire Overall Diameter: 3.6 mm
- ▶ Minimum Bend Radius:

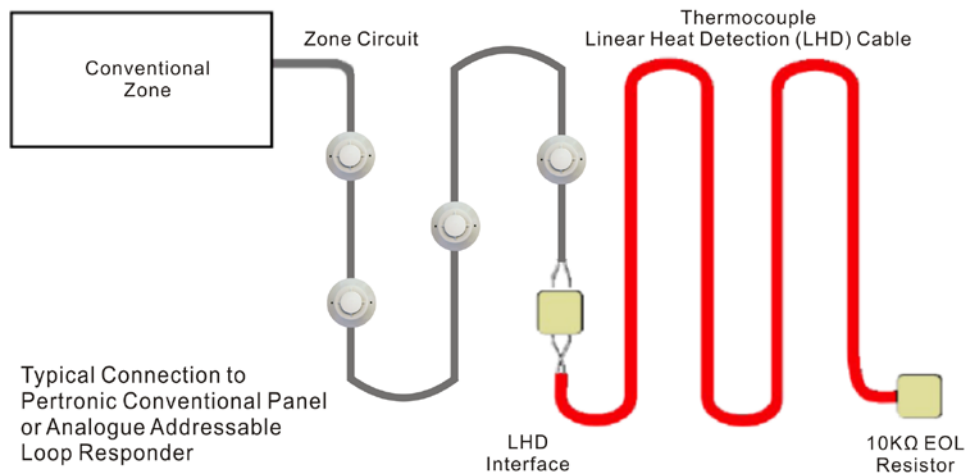
50 mm @ >0°C	
100 mm @ ≤ 0°C	
- ▶ Ambient Temperature:

-40 °C to 45 °C	- for 68 °C or 78 °C activating
-40 °C to 70 °C	- for 88 °C or 105 °C activating
- ▶ Maximum Voltage Rating: 30 Vac / 42 Vdc
- ▶ Resistance: ~200 Ω/km
- ▶ Colour of Outer: Red

LHD Product	SS-LD-68	SS-LD-78	SS-LD-88	SS-LD-105
Capacitance (pF/m)	150	121	97	88
Inductance (nH/m)	960	750	540	1050

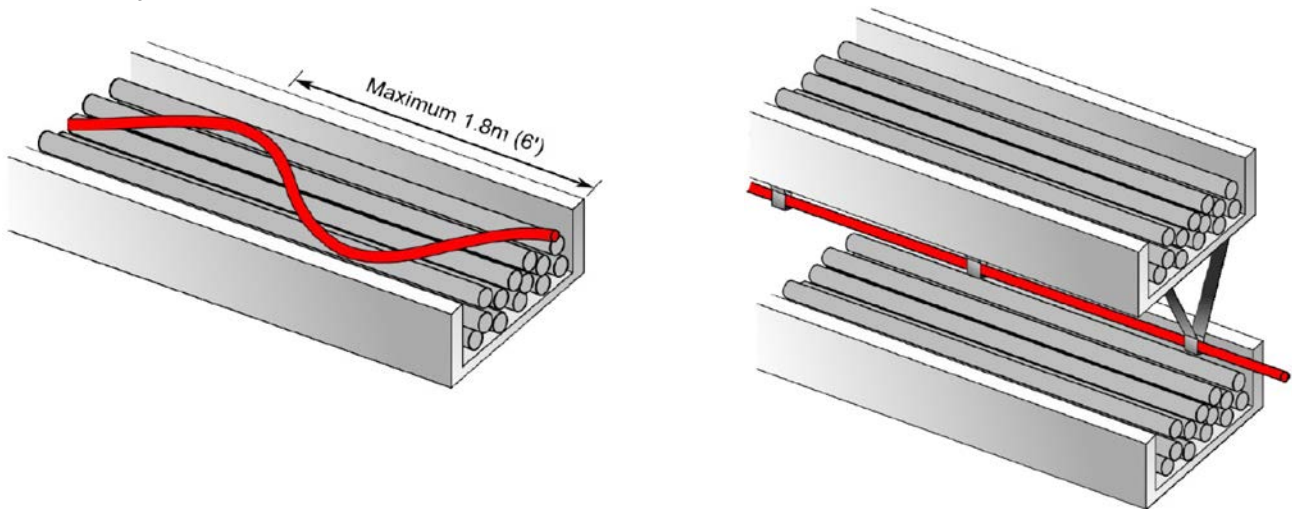
Typical System Configuration:

Basic Circuit:

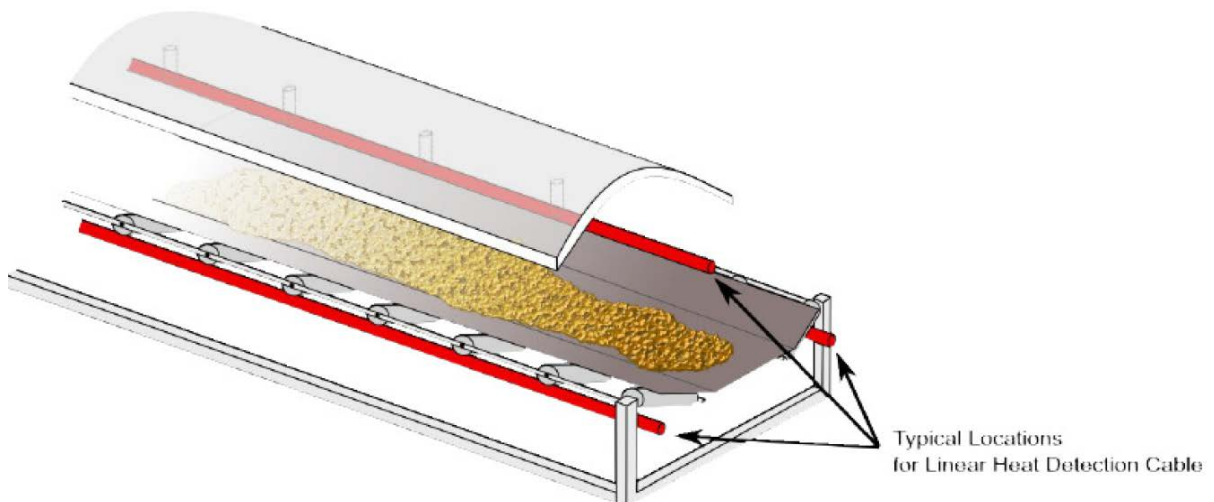


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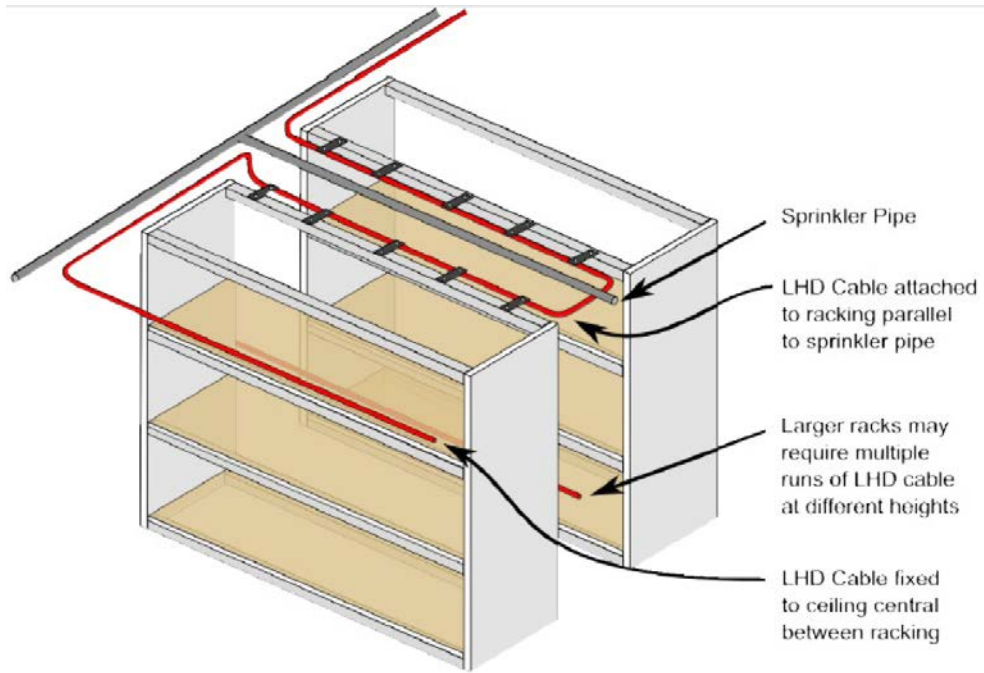
Cable Trays:



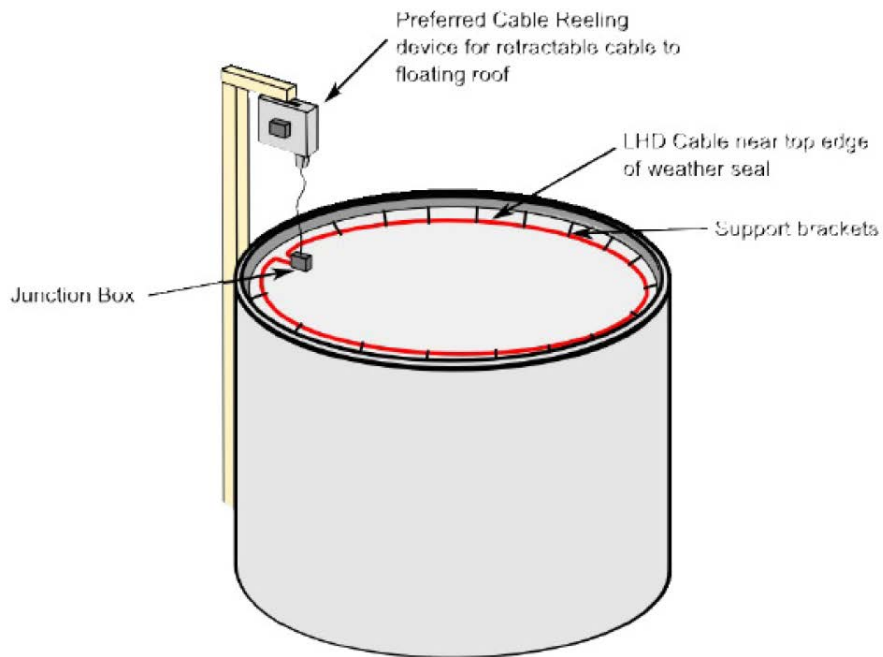
Conveyor Belts:



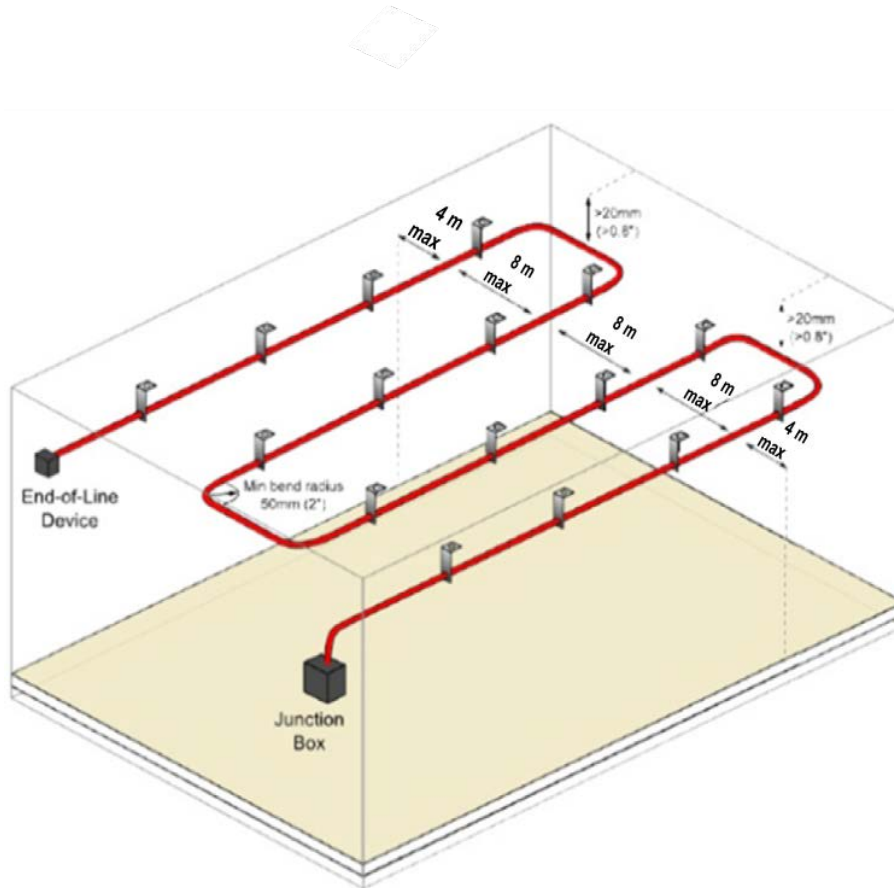
Rack Storage:



Floating Roof Storage Tanks:



Area Protection:



Please refer to the latest edition of NZS 4512 (s. 405.3.2) for detailed linear heat detector installation requirements.

Ordering Information:

Product Code	Description
SS-LD-68-155	Linear Heat Detection cable 68°C - PVC
SS-LD-78-172	Linear Heat Detection cable 78°C - PVC
SS-LD-88-190	Linear Heat Detection cable 88°C - PVC
SS-LD-105-221	Linear Heat Detection cable 105°C - PVC
On request	Linear Heat Detection cable - Nylon
RESFR1610K	EOL Resistor 10KΩ, 0W5, 5%
RESFR16330R	Series Alarm Resistor 330Ω, 0W5, 5%
RESFR16100R	Series Alarm Resistor 100Ω, 0W5, 5%

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