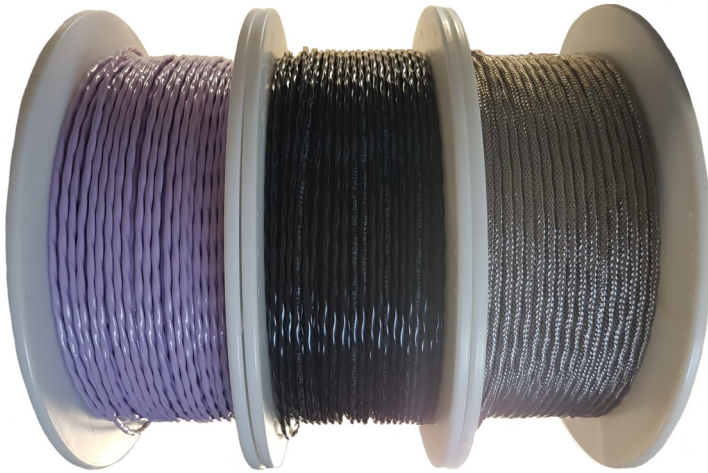


Non-Resettable Digital Linear Heat Detection Cable



The Patol Non-Resettable Digital Linear Heat Detection Cable (LHDC) is designed to provide early detection of fire conditions and overheating in circumstances where other forms of detection would not be viable, either due to an inability to sustain the environment requirements or through prohibitive costs.

Extensive single zonal lengths of the Non-Resettable Digital LHDC may be installed with the ability to trigger alarms for hot spots occurring on very small sections of the overall cable, with the ability to identify the distance in meters when connected to a Digital Interface with Distance Location Display.

The Non-Resettable Digital LHDC may be employed in a wide variety of applications but is particularly suited where there are harsh environmental conditions, a physical or hazardous maintenance access constraint to protect the area, and / or a requirement to cost effectively install detection in close proximity to the risk(s).

The primary mechanism of Non-Resettable Digital LHDC is that the inner cores insulating polymers are specially formulated such that the polymers plasticize at a specific temperature, causing the inner cores to make contact and send a signal to the controller.

Features

SIL 2 Approved when used with Digital Interface modules:

LDM-519-DIM-28 (**EN54-28**) (Pending)

LDM-519-DIM

LDM-519-DDL

UL Listed.

UV and Chemical Resistant.

Early Detection of hazards at temperatures well below flame point.

Rugged construction - Stainless Steel outer armour available.

Fixed Alarm Trigger Temperature.

Compatible with many existing zone monitors / Control Equipment.

Intrinsically Safe Configurable for Hazardous Areas.

Applications

Cable Tunnels, Ducts & Mezzanines

Escalators & Moving Walkways

Petro-Chemical Storage Tanks / Rim Seal Protection

Paint Shops, Spray Booths & Climate Chambers

Conveyors - Coal, Wood, Sulphur. etc

Ceiling Voids & Attic Spaces

Road & Rail Tunnel Carriageways

Nuclear Reactor Plant Areas

Refrigerated Stores & Cold Rooms

Electrical Control & Switchgear Cabinets

Warehouse High Rise Pallet Racking

Oil Rigs & Off Shore Platforms

Fume Cupboards & Glove Boxes

Grain Silos & Agricultural Storage

Road / Rail Vehicle Engine Compartments

Steam pipe Leaks & Trace Heating Faults

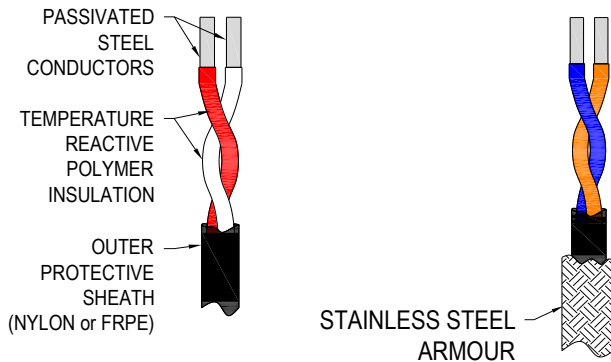
Product Lines - Flanges, Valves & Pumps

Computer Room under Floor Cable Voids

Non-Resettable Digital Linear Heat Detection Cable

Cable Construction

The Patol Non-Resettable Digital LHDC comprises of a twisted pair twin core cable. Each core is of tinned copper coated spring steel and has a special heat reactive polymer insulation.



700-090 Shown

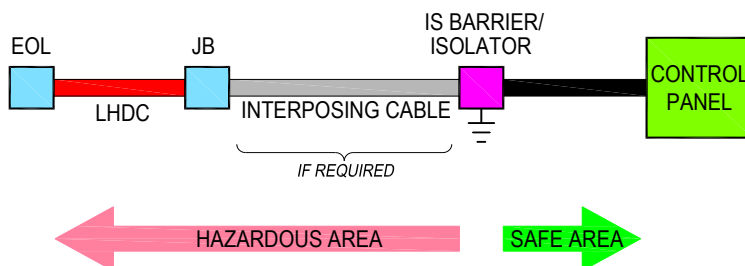
700-071 Shown

Non-resettable Digital LHDC may be used as a simple switch to operate a relay etc. However in most installations the minimum requirement is that the LHDC circuit is monitored for disconnections (Open Circuit) by means of an EOL device and an appropriate fire alarm channel or address loop interface unit.

Temperature Specifications

	Alarm Temp	Max. Ambient	Min Operating	Min. Installation
700-070	70°C	45°C	-65°C	-40°C
700-090	90°C	70°C	-65°C	-40°C
700-180	180°C	150°C	-65°C	-40°C

Intrinsically Safe Configuration



Specification

No. of Cores:	2
Voltage Rating:	150Vdc (Dielectric Test 500Vdc)
Outer Diameter:	4.0mm ± 0.3mm
(Maximum)	S.S. Armour 4.5 ± 0.3mm
Weight:	
Standard cable	1km reel 21kg
Armoured cable	500m reel 19kg
Approval:	UL Listed (180°C Pending)

Ordering Information

Description	Part Number
Nylon 70°C (outer sheath black)	700-070
Nylon S.S* 70°C	700-071
Nylon 90°C (outer sheath black)	700-090
Nylon S.S* 90°C	700-091
Nylon 180°C (outer sheath violet)	700-180
Nylon S.S* 180°C	700-181

For compliance with EN54-28**

FRPE 70°C (outer sheath black)	700-070LS0H
FRPE S.S* 70°C (outer sheath black)	700-071LS0H
FRPE 90°C (outer sheath black)	700-090LS0H
FRPE S.S* 90°C (outer sheath black)	700-091LS0H

*Stainless Steel Armour UV & Chemical Resistant

Interfaces and Termination boxes used with the above Digital LHDC:

Description	Part Number
LDM-519-DDL	700-451 (SIL 2)
LDM-519-DDL-G	700-451(G) (SIL 2)
LDM-519-DDL-Z	700-451(Z) (SIL 2)
LDM-519-DDLX (10K)	700-471
LDM-519-DIM	700-441 (SIL 2)
LDM-519-DIM-28	700-442 (EN54-28** & SIL 2**)

**Pending

EOL & Junction Box refer to D1210

700-451(G) suitable only for use with Galvanic Isolator

700-451(Z) suitable only for use with Zenner Barrier

PATOL
FIRE DETECTION SOLUTIONS