

# LINEAR HEAT DETECTOR CABLES - HDC



**EN 54-28** FIRE DETECTION AND ALARM SYSTEM.  
PART 28 NON-RESETTABLE LINE-TYPE HEAT DETECTORS.

- HDC - 68
- HDC - 88
- HDC - 105
- HDC - 138



**UL-EU CERTIFICATE**

Certificate No. UL-EU-01287-EN  
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Date of Issue 2023-03-06

Certificate Holder Caviced S.p.A.  
Via Caduti del Lavoro 18A - 20096 - Pistoia, Italy

Manufacturer Same as Certificate Holder

Certified Product Type Non-resettable line-type heat detectors

Product Trade Name HDC-68 Heat Detector Cable  
HDC-105 Heat Detector Cable

Trademark

Rating/Classification See Appendix

Harmonised Technical Specifications EN54-28:2016  
Supporting Documentation S35647-001-EuropeanDirective-Original  
Additional Information NA  
Expiry date 2033-03-06

Authorized Certification Decision Maker  
Richard Deacon

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# LINEAR HEAT DETECTOR CABLES - HDC

HDC LINEAR HEAT DETECTOR CABLES ARE RELIABLE AND ECONOMIC TOOLS FOR MONITORING ABNORMAL HEAT INCREASE WHICH OFTEN IS A PRELIMINARY STAGE OF A FULL FIRE EVENT.

The **HDC** sensor cable detects heat anywhere along its length: it is a **continuous** heat detector unlike the standard point detector. The **HDC** sensor cable is composed by two copper covered steel wires, individually insulated with a thermosensitive polymer. At the rated temperature the polymer insulation melts, thus permitting the conductors to short-circuit and generate an alarm signal. Four temperature alarm levels are available: **68 °C, 88 °C, 105 °C** and **138 °C**.

## APPLICATIONS

Pipelines  
Storage Tanks  
Cable Trays  
Aircraft Hangars  
Control Rooms  
Warehouses  
Bridges and Tunnels  
Mines  
Cooling Towers  
Escalators

## APPROVAL AND CERTIFICATION

HDC cables (Heat Detector Cables) can also be supplied with certification issued by a Notified Body in compliance with the EN 54-28:2016 standard. All the tests prescribed by the standard as per the attached certification were carried out at the laboratory UL LLC – Northbrook – USA to guarantee compliance with all the requirements of the standard.

**Cable Types:** HDC-UL 68, HDC-UL 105

**Certified Product Type:** Non-resettable line-type heat detectors

**Certificate No.** ULEU-01267-EN

**Date of Issue:** 06-03-2023



	HDC-68	HDC-88	HDC-105	HDC-138
<b>Alarm temperature</b>	68±10%	88±10%	105±10%	138±10%
<b>Outer sheath colour</b>	red	white	black	blu
Conductors	Copper covered steel wire, ø 0.95 mm			
Insulation	Special thermosensitive polymer, red and black			
Cabling	Twisted insulated conductors			
Sheath	Extruded thermoplastic sheath			
Outer diameter	4.5 mm			
Weight	25 kg/km			
Max. ambient temperature	40°C 50°C 60°C 70°C			
Voltage rating	50 V a.c. or 120 V d.c.			
Conductor resistance	300 Ω/km @ 20 °C			
Dielectric test	500 V d.c. x 1'			
Water and oil sheath resistance	good			
Flame propagation	IEC 60332-1			
Fire reaction CPR	Eca - EN 13501-6			
RoHS II	2011/65/EU			
CE	2014/35/EU			

## HEADQUARTERS AND FACTORY

Via Caduti del Lavoro, 18/A  
20090 Pioltello (Milano)  
Italy  
Ph: +39 02 921 605 21  
Fax: +39 02 921 607 53  
e-mail: cavicel@cavicel.com

## DUBAI OFFICE

Fortune Executive Tower  
Office 406 - Plot n. T1  
Jumeirah Lakes Towers  
Dubai - UAE  
Ph: +971 4 4581199  
Fax: +971 4 4581144  
e-mail: middleeast@cavicel.com

www.cavicel.com

  
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