

LINEAR HEAT DETECTOR CABLES - HDC

Also available in



approved version

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

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



آبادگستر تاسیسات ایرانیان (آتا)
Abad Gostar Tasisat Iranian Co., LTD

UL-EU CERTIFICATE

Certificate No. UL-EU-01267-EN
Page 15
Date of Issue 2023-03-06
Certificate Holder Cavitel S.p.A.
via Caduti del Lavoro 18A - 20096 - Poglieto, 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 Cavitel
Rating/Classification See Appendix
Harmonised Technical Specifications EN54-28:2016
Supporting Documentation S36467-001-EuropeanDirective-Original
Additional information NA
Expiry date 2033-03-06



Richard Dwyer

Authorized Certification Decision Maker
Richard Dwyer

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Cavitel
Conducting Value

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
Alarm temperature	68±10%	88±10%	105±10%	138±10%
Outer sheath colour	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			
Dietectric 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

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