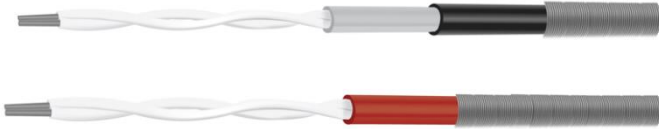# PROLINE Digital Stainless Steel Cable Data Sheet

Key Features

- UL 521 approved File No S3657*
- Detection at any point along the cable
- Low installation and maintenance costs
- Reliable solution for hazardous areas
- Cost effective point of risk detection

Overview

Proline Digital Linear Heat Detection Cable uses fixed temperature detection technology to provide an easy method for sensing changes in temperature levels. The cable can offer alternative overheat protection in a vast range of applications and environments, from tunnels, cable trays, warehousing to sensing changes in temperature within escalators and other applications where many risks of fire are hidden from view.

The digital linear heat detection cable can be directly connected to a single zone of a conventional fire alarm control panel, or, using an addressable zone/switch monitor, the digital linear heat detection cable can easily be interfaced to an addressable loop.

Digital linear heat detection cable is comprised of a pair of twisted low resistance, tri-metallic conductors, sheathed in advanced temperature sensitive polymers. When the cable reaches the required temperature the two twisted cores will fuse together, with a fire triggering resistor attached to the input interface and a single core of linear heat cable to activate an alarm at the main fire panel.

The stainless-steel braided linear heat detection cable provides the ideal solution for areas where the cable may be accidentally cut or where it may be subject to mechanical abrasion.

Technical Data

Construction:	Overall insulated, twisted pair of tri-metallic cores
Insulation:	1kV tested protective outer coat
Approvals:	CE Marked, RoHS Compliant, UL 521 approved File No S36573
Maximum Zone Length:	3,000m (10,000ft)
Wire Overall Diameter:	**PVC** 4.10mm ± 0.12mm (0.161" ± 0.005")
	Nylon 5.08mm ± 0.12mm (0.200" ± 0.005")
	Silicone 5.50mm ± 0.1mm (0.216" ± 0.04")
Minimum bend radius:	50 mm (2")
Ambient Temperature Range: (dependent upon activation temperature)	-40°C to 170°C (-40°F to 338°F)

Technical Data: Electrical

Max Voltage Rating:	30Vac, 42Vdc
Resistance:	~1000/km (290/kft) per leg
Velocity of Propagation:	~55%
Capacitance:	88 -150 pF/m (26-45 pF/ft)
Inductance:	540-1050 nH/m (165 -320 nH/ft)

Ordering Information

Add SS to the end of any Proline Digital cable part number to add stainless-steel braiding.
Maximum reel length 500m

Part Number	Description
TH***SS-100	Digital LHD Cable, Stainless Steel Braided, 100m
TH***SS-200	Digital LHD Cable, Stainless Steel Braided, 200m
TH***SS-500	Digital LHD Cable, Stainless Steel Braided, 500m

*UL approval only applies to the base cable, additional stainless-steel braid not UL approved