



PROLINE EN Digital Cable (TH68EN-TH88EN)

Proline EN 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 Proline EN Digital LHD cable is designed to work with the Proline EN Digital Sensor Control Unit Z1-02EN and Proline EN Digital End-of-Line Unit EOLU-EN.

The outputs of the Proline Z1-02EN can then be connected to a conventional fire alarm panel or an addressable switch/zone monitor unit.

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 cables protective outer coating is UV stable and hydrocarbon resistant, low smoke, zero halogen, oil resistant, and flame retardant making it suitable for almost any application. The cable is also available with a stainless-steel braid for further mechanical protection.

KEY FEATURES

- EN54-28:2016 approved
- Up-to 1,000m per zone when used with the Z1-02EN
- Low smoke and halogen free.
- Flame retardant outer jacket
- UV stable and hydrocarbon resistant.
- Optional approved stainless steel over-braiding for increased mechanical protection

CHEMICAL RESISTANCE DATA

These ratings are given as a guide and for constant exposure to the chemicals shown at normal (10 to 30 °C temperatures. (* - not recommended, ***** - little or no impact)

CHEMICAL	PROLINE EN DIGITAL
Ammonia, Liquid/Gas	*****
Butane	**
Copper Nitrate	*****
Fuel Oils	***
Gasoline	***
Hydrofluoric Acid	****
Kerosene	.
Diesel Fuel	***
Acetic Acid	****

TECHNICAL DATA

PRODUCT	Proline EN Digital LHD Cable 680C	Proline EN Digital LHD Cable 680C Stainless Steel Braided	Proline EN Digital LHD Cable 780C	Proline EN Digital LHD Cable 780C with Stainless Steel Braid	Proline EN Digital LHD Cable 880C	Proline EN Digital LHD Cable 880C with Stainless Steel Braid
Model Designation	TH68EN	TH68ENSS	TH78EN	TH78ENSS	TH88EN	TH88ENSS
Performance Type	T068-V10-A045		T078-V10-A045		T088-V10-A065	
Environmental Group	II		III		III	
Activation Temperature	68°C		78°C		88°C	
Ambient Temperature	-40°C to 45°C		-40°C to 45°C		-40°C to 65°C	
Humidity	0% to 98% RH					
Colour	Red	Silver braid over Red	Red	Silver braid over Red	Red	Silver braid over White
Capacitance per m	<100pF					
Inductance per m	<3.2µH					
Resistance per m	Approx 2.5ohms					
Diameter	5.72mm +/- 0.12mm	6.3mm +/- 0.12mm	5.72mm +/- 0.12mm	6.3mm +/- 0.12mm	5.72mm +/- 0.12mm	6.3mm +/- 0.12mm
Minimum bend radius	100mm	125mm	100mm	125mm	100mm	125mm
Features	Low-Smoke Zero Halogen (LSZH), UV Stable, Oil Resistant, Flame Retardant	Low-Smoke Zero Halogen (LSZH), UV Stable, Oil Resistant, Flame Retardant, Increased Mechanical Strength, Abrasion Resistant	Low-Smoke Zero Halogen (LSZH), UV Stable, Oil Resistant, Flame Retardant	Low-Smoke Zero Halogen (LSZH), UV Stable, Oil Resistant, Flame Retardant, Increased Mechanical Strength, Abrasion Resistant	Low-Smoke Zero Halogen (LSZH), UV Stable, Oil Resistant, Flame Retardant	Low-Smoke Zero Halogen (LSZH), UV Stable, Oil Resistant, Flame Retardant, Increased Mechanical Strength, Abrasion Resistant

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
TH68EN-100	Digital LHD Cable, Red, 68°C Alarm Temp, UL, 100m
TH68EN-200	Digital LHD Cable, Red, 68°C Alarm Temp, UL, 200m
TH68EN-500	Digital LHD Cable, Red, 68°C Alarm Temp, UL, 500m
TH68EN-1000	Digital LHD Cable, Red, 68°C Alarm Temp, UL, 1000m
TH78EN-100	Digital LHD Cable, Red, 78°C Alarm Temp, UL, 100m
TH78EN-200	Digital LHD Cable, Red, 78°C Alarm Temp, UL, 200m
TH78EN-500	Digital LHD Cable, Red, 78°C Alarm Temp, UL, 500m
TH78EN-1000	Digital LHD Cable, Red, 78°C Alarm Temp, UL, 1000m
TH88EN-100	Digital LHD Cable, White, 88°C Alarm Temp, UL, 100m
TH88EN-200	Digital LHD Cable, White, 88°C Alarm Temp, UL, 200m
TH88-500	Digital LHD Cable, White, 88°C Alarm Temp, UL, 500m
TH88EN-1000	Digital LHD Cable, White, 88°C Alarm Temp, UL, 1000m

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

