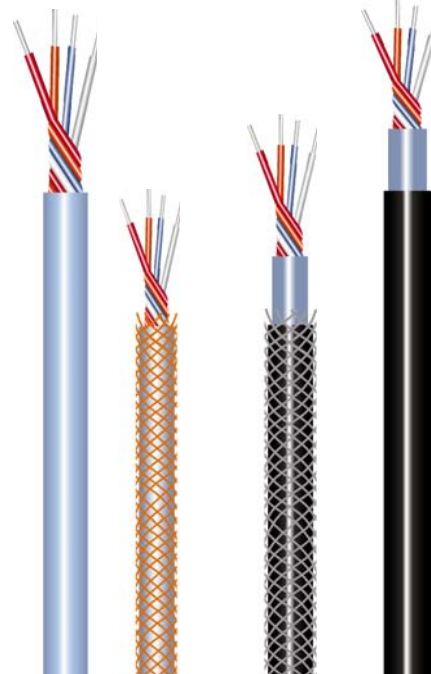


ANALOGUE HEAT SENSING CABLE ALARMLINE

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PRODUCTS

- The Alarmline controller ensures that the heat sensing cable system is compatible with most fire control panels.
- Alarmline can be used in hazardous area installations providing the cable is protected with suitable Zener barriers.
- For arduous environments optional nylon and metallic braiding are available
- Resettable: Alarmline is self restoring after an alarm fire providing it has not been destroyed or severely mechanically damaged or has not been directly subjected to temperatures greater than 120°C for excessive periods



**Alarmline analogue heat
detection cable**

The cable consists of four conductors protected by a high temperature PVC insulation. Two of the four cores are temperature sensitive being insulated with a negative temperature coefficient material. The other two cores are insulated with normal PVC insulation. The cores are twisted together within the outer high temperature sheath. The cable is connected to an Alarmline controller and the far end of the cable is terminated with each temperature sensitive core connected to one of the normal PVC insulated cables. This provides for open circuit or short circuit protection throughout the cable length

Principle of Operation

Alarmline cable senses temperature variations using the Alarmline controller to continuously monitor the resistance of the two cores insulated with a negative temperature coefficient material.

A change in temperature produces a relative change in resistance, as temperature increases, resistance is lowered. This change is monitored by the controller, which actuates an alarm signal at a predetermined level. The integrating effect of the Alarmline sensor cable enables detection of a localised hot spot or a lower level of temperature over its total length. Provided the sensor cable has not been directly subjected to temperatures greater than 120°C for excessive periods, it will recover to its normal condition.

SPECIFICATION

Description	High Temperature PVC	High Temp PVC + Nylon (black)	High Temp PVC + Bronze braided	High Temp PVC + Nylon + stainless steel braid
Part numbers	K82017	K82021	K82078	K98166
External diameter	3.25 mm	4.25 mm	4.25 mm	5-6 mm
Weight (200 metres)	3.2 Kg	4.3 Kg	8.3 Kg	10 Kg
Minimum tensile	100 N	+100 N	1000 N	1000 N

Conductor diameter:	0.46 mm
Dielectric thickness:	0.34 mm
Outer sheath thickness:	0.25 mm
Twist turns of inner conductors:	82 +/-5 per metre
Conductor material:	Copper
Dielectric material:	Cores 1 and 3: NTC polymer Cores 2 and 4: PVC
Core colours:	1: Orange 2: White 3: Red 4: Blue
Service life:	30 years up to 100°C
Voltage insulation:	10KV between outer sheath and a conductor
Storage temp limits:	-40°C to +90°C

Cable End of Line Termination

Alarmline cable is easily terminated on site, using an end of line termination kit, part no. K82023 or in a junction box. Within hazardous areas termination must be with an approved junction box.

The **WHITE** and **ORANGE** cores are connected together and the **BLUE** and **RED** cores are connected together. An end of line resistor is not required

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