

Linear Heat Detection (LHD) Application Bulletin

PROXIMITY DETECTION

Proximity Detection

For proximity or special application protection, ThermoCable™ should be installed on or immediately above the hazard in a way that allows for it to be exposed to a rise in temperature caused by a fire condition.

Motors, Generators, Pumps, Valves

ThermoCable™ can be mounted directly on the surface of virtually any type of mechanical and electrical equipment. This type of installation allows for quick response to overheating equipment, which can provide warning earlier than using area detection alone. Typically, the ThermoCable™ used to protect equipment directly is of a higher activation temperature. The higher temperature detection wire can be spliced into the same detection wire used for the area detection and both be considered part of the same zone. The distance locating option may be used to identify the higher temperature wire on the zone, which can isolate the equipment in question.

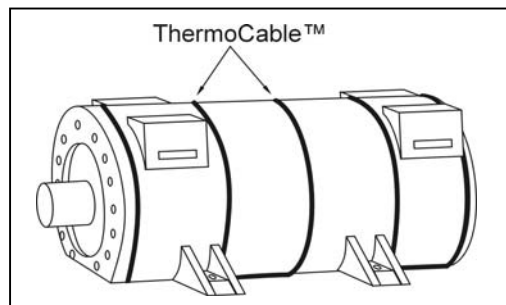


Figure 17

In Cabinet Detection

ThermoCable™ can be weaved through electrical panels, switchgear and other electrical cabinets in a manner to bring it near electrical components in the cabinet. Detection cable should be fastened with non-conductive TC1012 nylon cable clips. In this type of application, special care needs to be given to ensure that the proper temperature of ThermoCable™ is selected based on the ambient temperature of the protected area and surface where the detection wire is mounted.

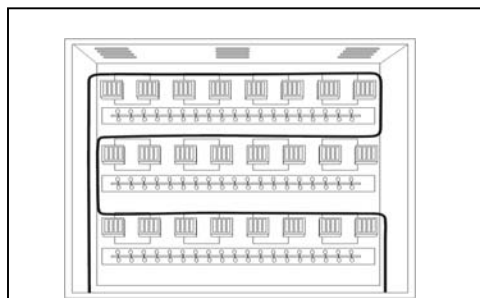


Figure 18

These notes are to be used as general guidelines for installing ThermoCable™ linear heat detection (LHD) wire. Please be sure to check all local and state codes prior to designing and installing a system. It is advisable to contact the local AHJ in the planning stages of a project.

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