

Linear Heat Detection (LHD) Application Bulletin

CABLE TRAY DETECTION

Cable Trays

A sine wave pattern, as shown below in figures 1 and 2, should be used when installing ThermoCable™ in a cable tray application. The maximum distance between each peak, or valley, should not exceed 6 feet. The detection wire is secured in place at the sides of the cable tray using the most appropriate mounting clip based on the tray construction. SAFE Fire Detection supplies mounting hardware which will help ensure a proper installation.

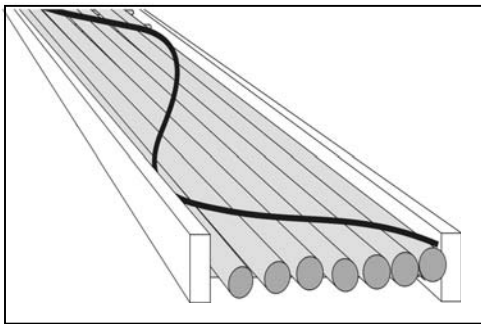


Figure 1

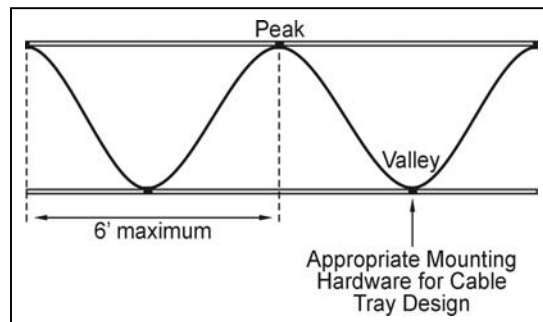


Figure 2

NOTE: It is important that the detection wire be placed on top of all cables in the tray, and that any additional cables runs must be threaded below the detection wire run to provide proper protection.

5.5.1 Estimating ThermoCable™ Length for Cable Trays

Since the recommended installation requires that the detection cable be run in a sine wave pattern, it may be difficult to estimate the total length of ThermoCable™ needed for a particular run. The following calculation will help determine the approximate amount of ThermoCable™ needed for a cable tray installation (Figure 3).

To determine the number of mounting point along the cable tray, divide the length of the cable tray by 3 and add 1.

Cable Tray Length divided by Width Coefficient = Total Length of ThermoCable™

Cable Tray Width	Width Coefficient
1'6"	.87
2'	.78
3'	.65
4'	.57

Figure 3

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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