

## FIRETRACE DETECTION TUBING

### Designed for use with DLP, ILP, IHP Automatic Suppression Unit

#### DESCRIPTION

Firetrace Automatic Detection Tubing (FDT) is a linear, pneumatic, fire detection device that responds to a combination of the heat and radiant energy from a fire.

The FDT is used as a combination linear heat detector and unit activation device to cause actuation of Firetrace Suppression Systems. The flexible tubing is installed throughout the hazard volume, with one end connected to the top of the cylinder valve.

The heat sensitive FDT is pressurized with nitrogen and in a fire situation is designed to rupture at any point along its length upon direct flame impingement or at high temperatures associated with fire conditions. The rupture of the FDT releases the nitrogen pressure causing the cylinder valve to actuate, resulting in complete discharge of the agent.

For Direct Systems, the FDT functions as both the fire detection device and the fire suppressant delivery system.



The portion of the tube nearest the fire ruptures and effectively forms a discharge “nozzle”. The entire contents of the cylinder is released through this nozzle.

For Indirect Systems, the FDT is used as a detection-only device. The fire suppression agent is delivered via a network of discharge hoses or steel pipe. When the tube bursts, the suppressant is discharged through nozzles placed within the protected enclosure.

Standard Product	6 mm OD x 4 mm ID (also available in 8 mm OD)
Standard Color	Red
Wall Thickness	1 mm (+0.1 mm/-0.2 mm)
Bulk Density	17g per meter
Dielectric Strength	(DIN 53481)kV/mm dry 40
Thermal Decomposition	Above 300°C
Toxicity	No expected health risk

## TECHNICAL CHARACTERISTICS

Detection temperature: Approximately 375°F to 400°F  
(190.5°C to 204°C)

**NOTE:** Detection time and temperature will be affected by factors such as internal pressure, flame intensity and rate of rise temperature changes.

Hydrostatic Burst Pressure: Minimum burst pressure is 1100 PSI (75 bar)

## LISTINGS AND APPROVALS

UL Recognized Component



Heat Detection Tubing, Model Firetrace, Rated at 195°F

PART NUMBER	DESCRIPTION	SYSTEM TYPE
204025	25' Detection Tubing 6 mm	DLP, ILP, IHP
204050	50' Detection Tubing 6 mm	DLP, ILP, IHP
204100	100' Detection Tubing 6 mm	DLP, ILP, IHP
204328	328' Detection Tubing 6 mm	DLP, ILP, IHP
268020	20' Detection Tubing 8 mm	DLP
268040	40' Detection Tubing 8 mm	DLP
268100	100' Detection Tubing 8 mm	DLP
268328	328' Detection Tubing 8 mm	DLP