



Wire & Cable Fire Resistance Tester

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STANDARDS

BS 6387

BS 8434

BS 8491

EN 50200

IEC 60331

SS 299

APPLICATIONS

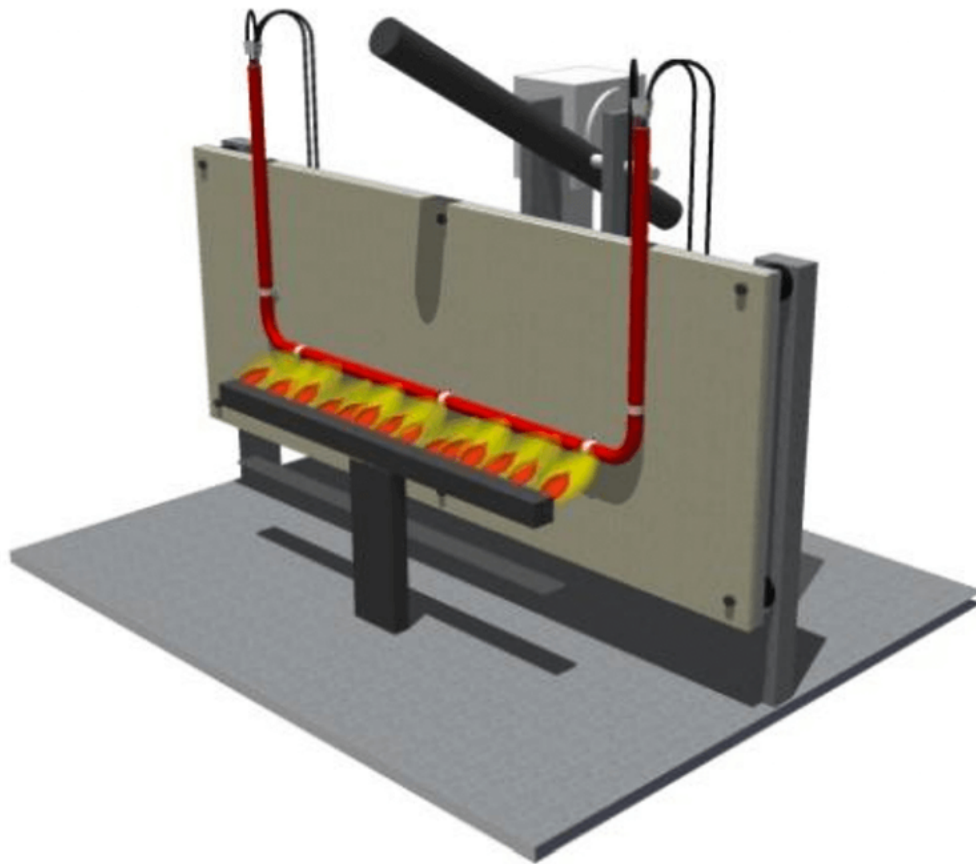
Wire & Cable Fire Resistance Tester QualiFlame™ -CFRT

Wire & Cable Fire Resistance Tester QualiFlame™ -CFRT is designed to assess a cable's ability to maintain circuit integrity when exposed to fire under specified conditions. These conditions typically involve a propane gas flame at temperatures ranging from 650 to 950 degrees, with or without additional factors such as mechanical impact or water spray.

The fire resistance test standards include, but are not limited to, EN 50200, IEC 60331, BS 6387, BS 8491, BS 8434, and SS 299.

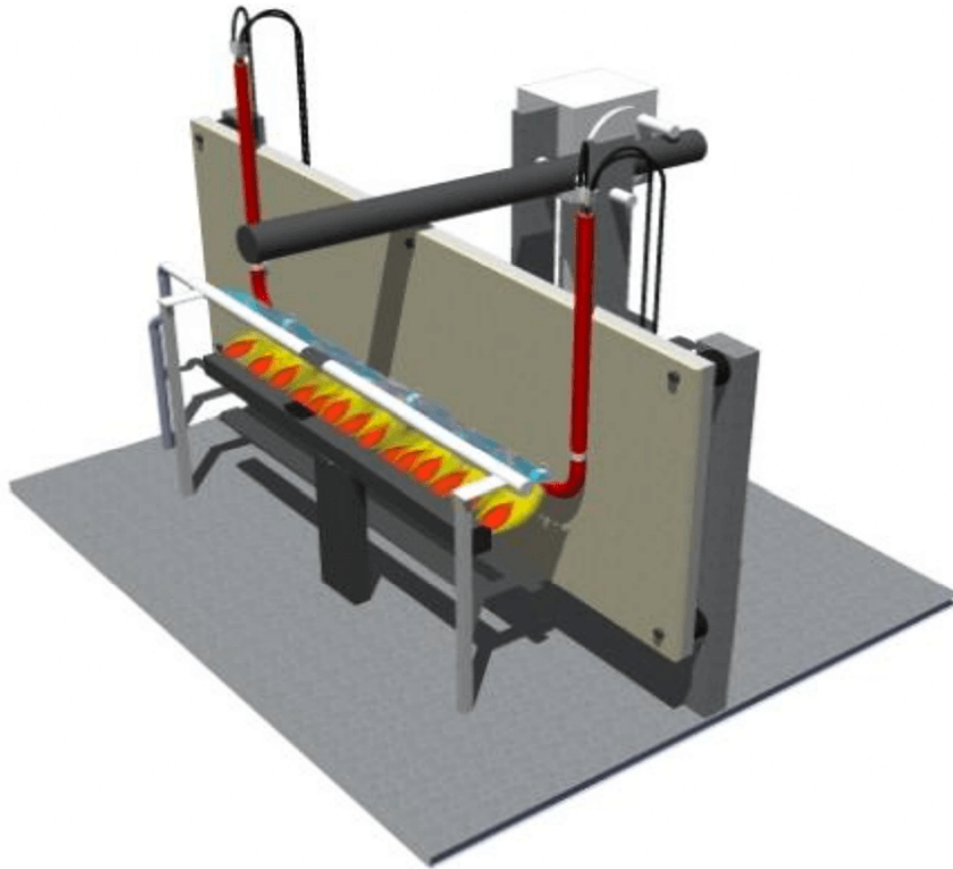


Wire & Cable Fire Resistance Tester Schematic & Test Characteristics



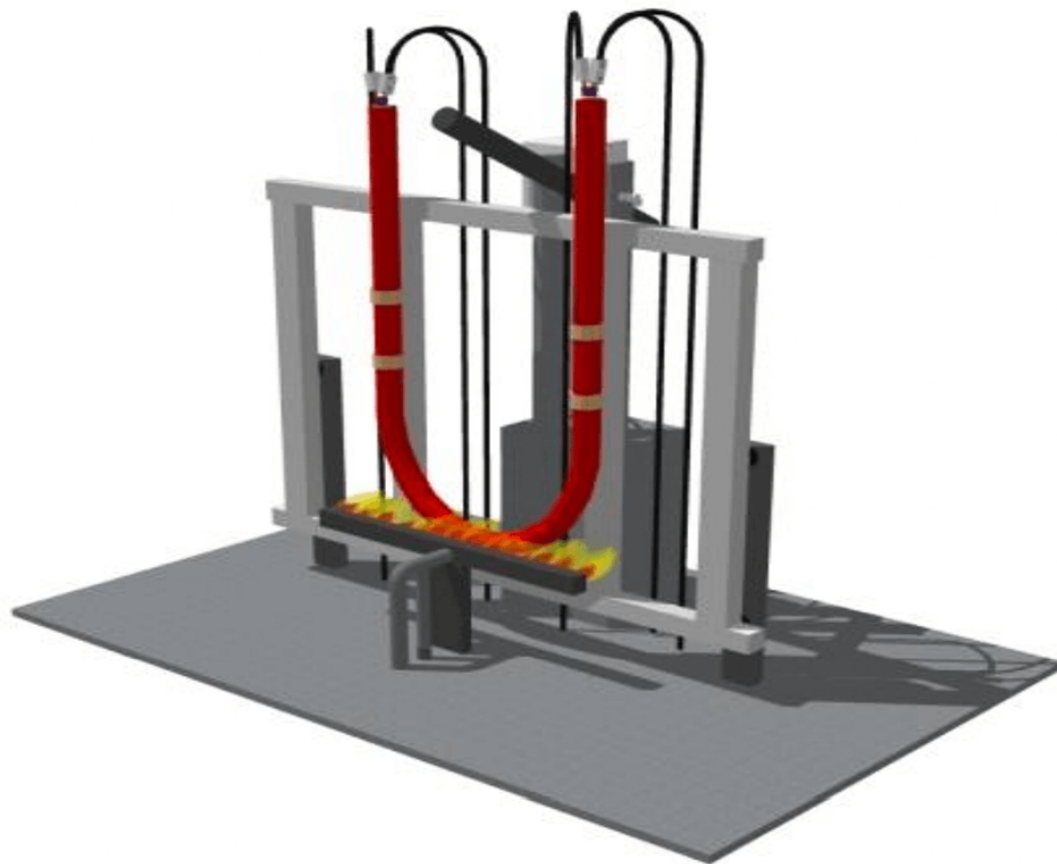
EN 50200

- Ribbon type burner.
- Flame temperature: $850 \pm 20^\circ\text{C}$.
- Flame application time: 120min.
- Mechanical shock.



EN 50200 Annex E

- Ribbon type burner.
- Flame temperature: $850 \pm 20^{\circ}\text{C}$.
- Flame application time: 120min.
- Mechanical shock and tube type water spray.

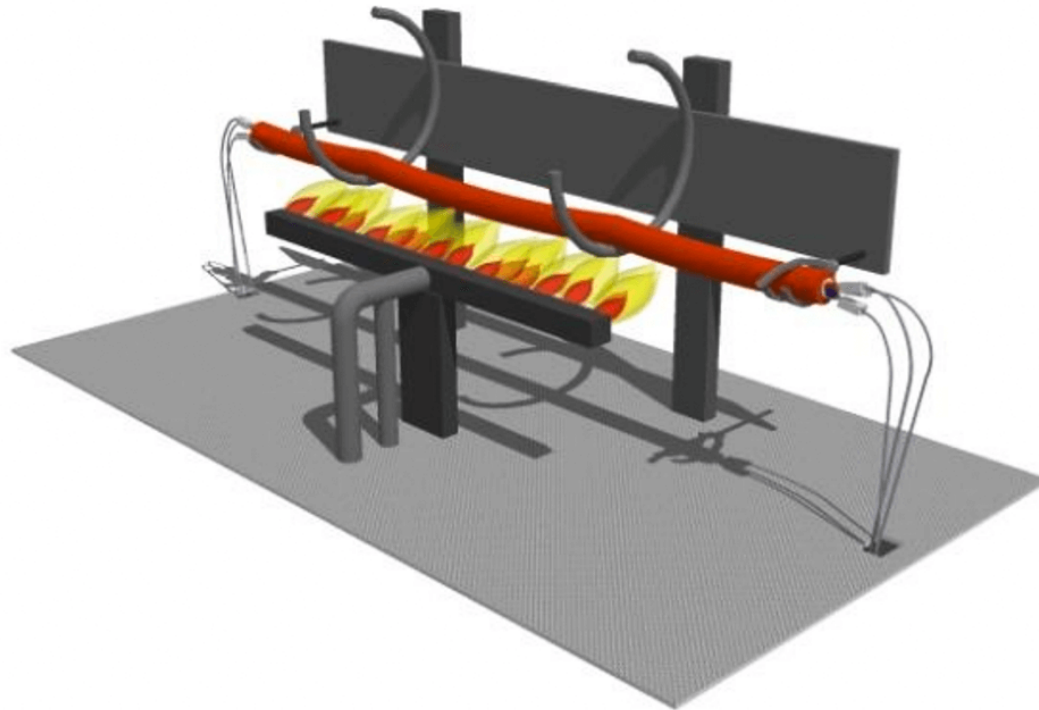


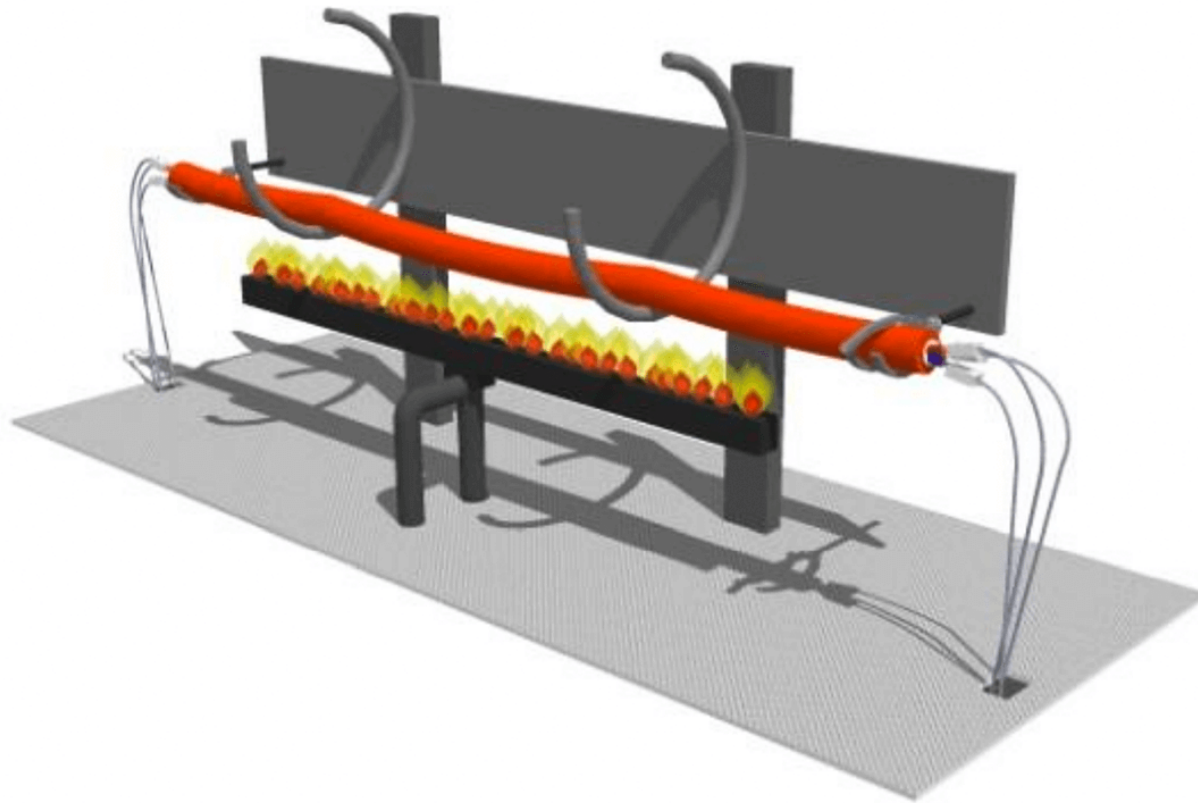
IEC 60331 Part 1,2,3

- Ribbon type burner.
- Flame temperature: $850\pm 20^{\circ}\text{C}$.
- Flame application time: 30/60/90/120min.
- Mechanical shock.

IEC 60331 Part 11, 21, 23, 25

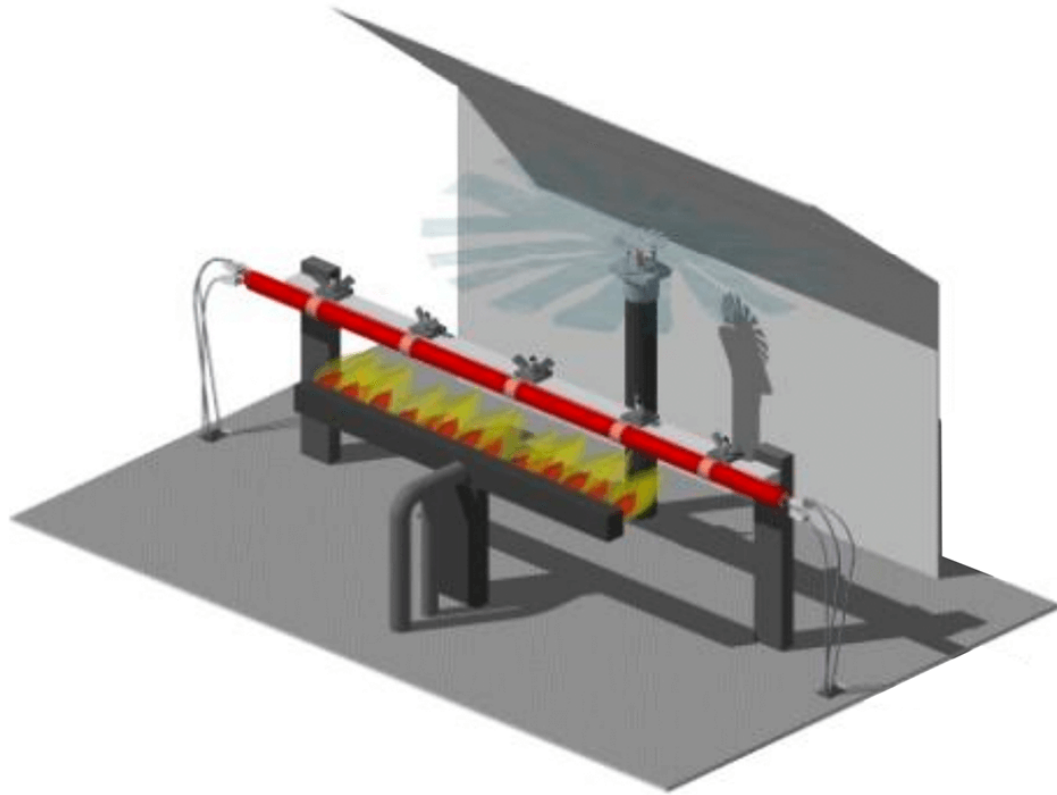
- Ribbon type burner.
- Flame temperature: $775\pm 25^{\circ}\text{C}$.
- Flame application time: 90min.
- Cable alone.





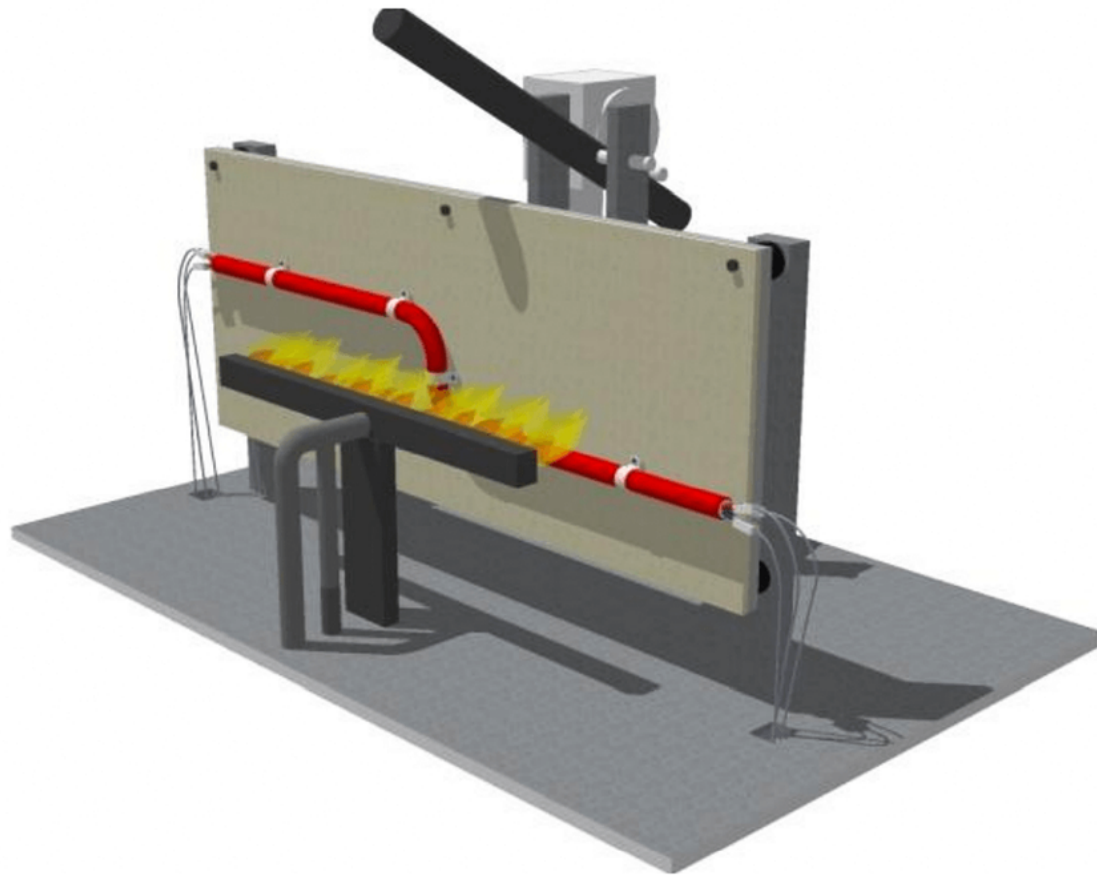
BS 6387 Protocol C

- Tube type burner, the burner is on the bottom.
- Flame temperature: $950\pm 40^{\circ}\text{C}$.
- Flame application time: 180min.
- Cable alone.



BS 6387 Protocol W

- Ribbon type burner.
- Flame temperature: $650\pm 40^{\circ}\text{C}$.
- Flame application time: 30min.
- Sprinkler water spray.



BS 6387 Protocol Z

- Ribbon type burner.
- Flame temperature: $950\pm 40^{\circ}\text{C}$.
- Flame application time: 15min.
- Mechanical shock.

FEATURES

Wire & Cable Fire Resistance Tester Features

- Independent control and test bench design ensure control safety and reliability.
- Provides an adjustable transformer voltage to accommodate different product operating voltages and ensure sufficient test voltage in case of current leakage.
- Features five test channels, with transformer voltage in series with a fuse and circuit breaker for protection of each test circuit.
- The test benches are well-grounded and include fuse protection.
- 15" industrial touchscreen computer for easy operation and use.
- Standard operating software includes test control, data recording, data processing, and report generation.
- The standard specimen support frame, metal ring, and support structure are well-grounded. The gas supply system consists of a pressure-reducing valve, pressure gauge, mass flow meter, venturi mixer, and burner.
- Provides a standard 500mm ribbon-type gas burner, supplying a propane flame of $650^{\circ}\text{C} \pm 40^{\circ}\text{C}$, $750^{\circ}\text{C} \pm 50^{\circ}\text{C}$, or $950^{\circ}\text{C} \pm 40^{\circ}\text{C}$.
- (Optional) Provides a standard 610mm tube-type gas burner, supplying a propane flame of $950^{\circ}\text{C} \pm 40^{\circ}\text{C}$.
- The gas pressure-reducing valve ensures a stable $0.1 \text{ MPa} \pm 3 \text{ Pa}$ outlet pressure.
- The pressure gauge displays pressure readings up to 200 kPa.
- The mass flow meter ensures a consistent propane gas supply with an accuracy of $\pm 2\%$.
- Includes a flame calibration device with a K-type stainless steel insulated thermocouple, displaying calibration results directly in the software.
- The flame application time can be set and will automatically shut off when completed.

Independent Test Benches:

- Resistance to fire alone test bench.
- Resistance to fire with water test bench.
- Resistance to fire with mechanical shock test bench.





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