



innovative solutions

Flammability Test Apparatus for Bunched Cables As per IEC 60332 Pt 3 Model SSI - 513 Ex



An ISO 9001:2008 Company
GMP compliant

The propagation of flame along a bunch of cables depends on a number of feature, such as:

- The volume of non-metallic material exposed to the fire and to any flame which may be produced by the combustion of the cables;
- The geometrical configuration of the cables and their relationship to any enclosure;
- The temperature at which it is possible to ignite gases emitted from the cables;
- The quality of combustible gas released from the cables for a given temperature rise;
- The volume of air passing through the cable installation and
- The construction of the cable, for example armored or unarmored.

All of the foregoing assume that the cables are able to be ignited when involved in an external fire.

The fire test should demonstrate that the bunched cables do not propagate fire even if its outer covering and insulation have been destroyed in the area of flame impingement.

This Test instrument is designed to covers a laboratory Procedure for testing of bunch cables mounted vertically to determine their relative ability to resist flame propagation. The objective of the fire test is to approximately simulate the installation condition and provide consistent results.

The instrument conforms to IEC 60332 Pt 3 and IS 10810 Pt 62.



(Actual instrument may differ from the photograph due to regular improvements)

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The instrument consists of

- A test chamber of inside dimensions width 1000 mm, depth of 2000 mm and height of 4000 mm.
- The test chamber is made of 1.6 mm thick GI sheet (no rust)
- An aperture of 800 x 400 mm situated 150 mm from the front wall of the test chamber.
- An outlet of 300 x 1000 mm at the rear edge of the top of the chamber
- Two ladder of 800 mm and 500 mm for fixing sample during the test
- Two ribbon type burner. (Can be used individually or simultaneously as per requirement)
- Control panels for controlling the LPG / air flow to the burner / burners
- Air Control System & air velocity measurement by digital anemometer .



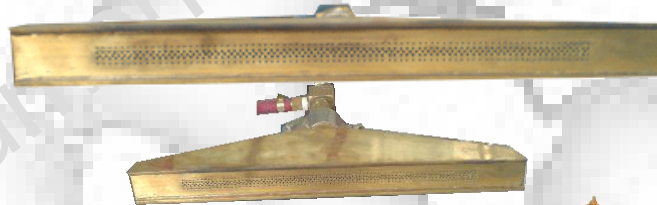
Floor opening for air flow



Opening on the roof



Sample Ladder



Ribbon Burner



Chamber packed in Wooden Box



Burner with Stand



Control Panel (2 burner)

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