Test on bunched wires or cables under fire conditions according to IEC 332-3

The test method define the ability a bunched cables to restrain flame propagation in defined conditions regardless of their application.

Three categories are defined and distinguished by test duration, and the volume of non-metallic material of the sample under test (see table).

Category and designation	A	B	C
Non metallic volume per metre of test sample (l)	7	3,5	1,5
Flame application time (min)	40	40	20

The test sample is comprise a number a test pieces of cable from the same length, each having a minimum length of 3,5 m.

The test rig (figure 1) comprise a vertical test chamber, in which is mounting steal ladder for fixing of samples and ignition source – ribbon type propane gas burner.

After burning the maximum extend of the charred portion of test sample should not have reached a height exceeding 2,5 m above the bottom edge of the burner, neither at the front nor the rear of the ladder.

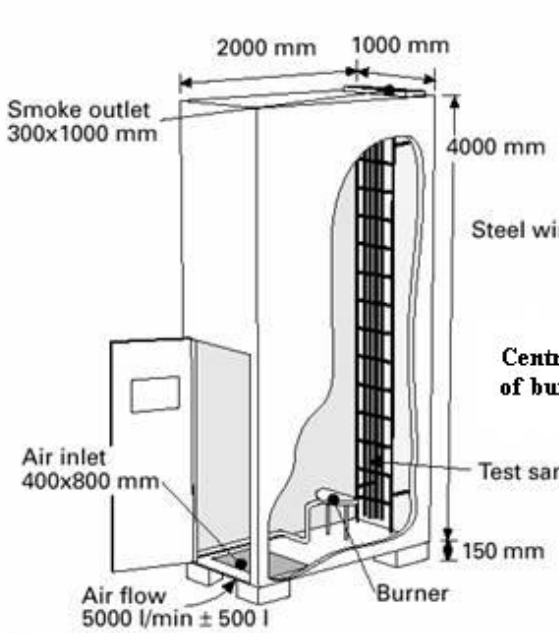


Figure 1.

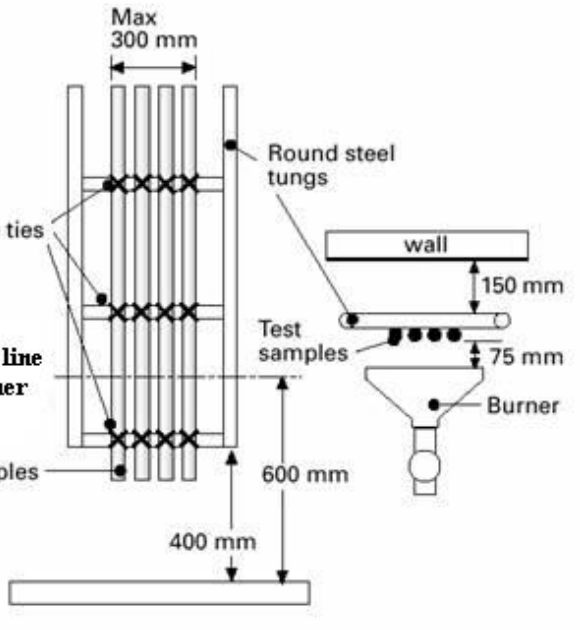


Figure 2.