

## SAE J1128 – SAE J1127

### 6.8 Resistance to Flame Propagation

A 600-mm sample of finished cable shall be suspended taut at 45 degrees to a horizontal plane within a partial enclosure, which allows a flow of sufficient air for complete combustion but is free from drafts. A gas burner shall be used having a 13-mm inlet, a nominal core of 10 mm, and a length of 100 mm above the primary inlets. The gas burner shall be adjusted to produce a 100-mm gas flame with an inner cone 1/2 of its height. The gas burner shall be positioned beneath the test sample and perpendicular to the axis of the test sample. The top of the inner cone of the flame shall be applied as shown in Figure 2. The time of application of the flame shall be 15 seconds. However, the exposure time shall not be longer than the time at which the conductor becomes visible. After removal of the gas burner flame, the test sample shall not continue to burn for more than 30 seconds and a minimum of 50 mm of insulation at the top of the test sample shall remain unburned. Test five samples. An optional apparatus is shown in Annex C of ISO 19642-2.

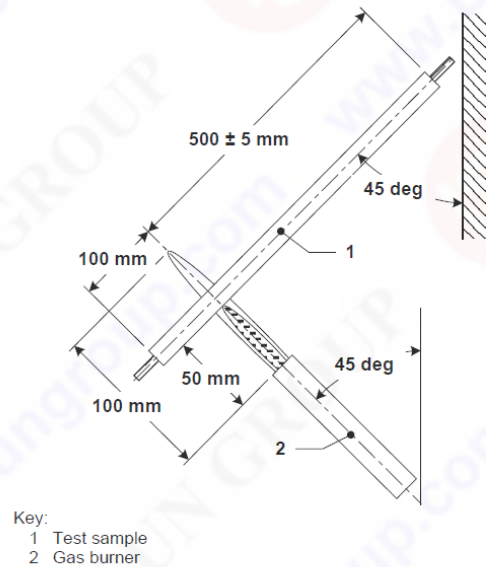


Figure 2 - Apparatus for flame resistance test