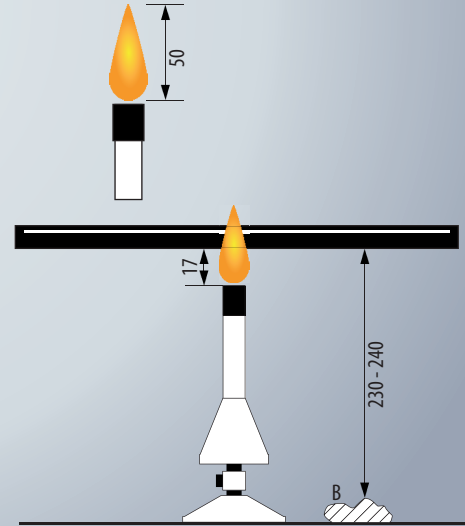
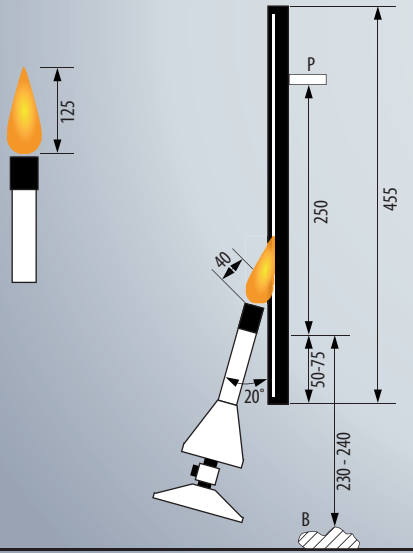


# UL Single cable flame tests



## UL 2556 Sec.9.3 FT1 / Sec.9.4 VW-1 / UL 1581 Sec.1061 Cable Flame

**Test set-up :** The cable is fixed vertically and fitted with a paper indicator flag (P, 10 x 20 mm). A Tirrill burner (modified Bunsen burner), fixed at an angle of 20° to the vertical, is used to apply the flame.

**Flame temperature :** Determined by the specific setting of the Tirrill burner flame. The power amounts to 500 W.

**Test duration :** Sec. 9.3 : 5 cycles of flame applied for 15 s with a break of 15 s. Cable with a diameter of  $25 < D \leq 50$  mm: 120 sec  
Sec. 9.4 : 5 cycles of flame applied for 15 s with a break of 15 s and a maximum break of 60 s.  
Sec. 1061: 3 cycles of flame applied for 60 s with a break of 30 s.

**Compliance criteria :** The sample may continue to burn for a maximum of 60s after the flame is removed and the paper indicator flag (P) can be carbonised at a maximum of 25 %. Any glowing or flaming material dripping off must not ignite the cotton wool (B) (does not apply to the FT1 test).

## UL1581 Sec.1090 H / UL2556 Sec.9.1 FT2

**Test set-up :** The cable is fixed horizontally with a Tirrill burner flame applied vertically (for the FT2 test the burner is angled 20° from the vertical). The cotton wool (B) is laid out next to the burner.

**Flame temperature :** Determined by the specific setting of the Tirrill burner flame.

**Test duration :** 30 seconds

**Compliance criteria :** Any glowing or flaming material dripping off must not ignite the cotton wool (B).  
Sec. 1090: The flame propagation speed must not exceed 25 mm/min.  
Sec. 9.1 : The length of the carbonised part may not exceed 100 mm.