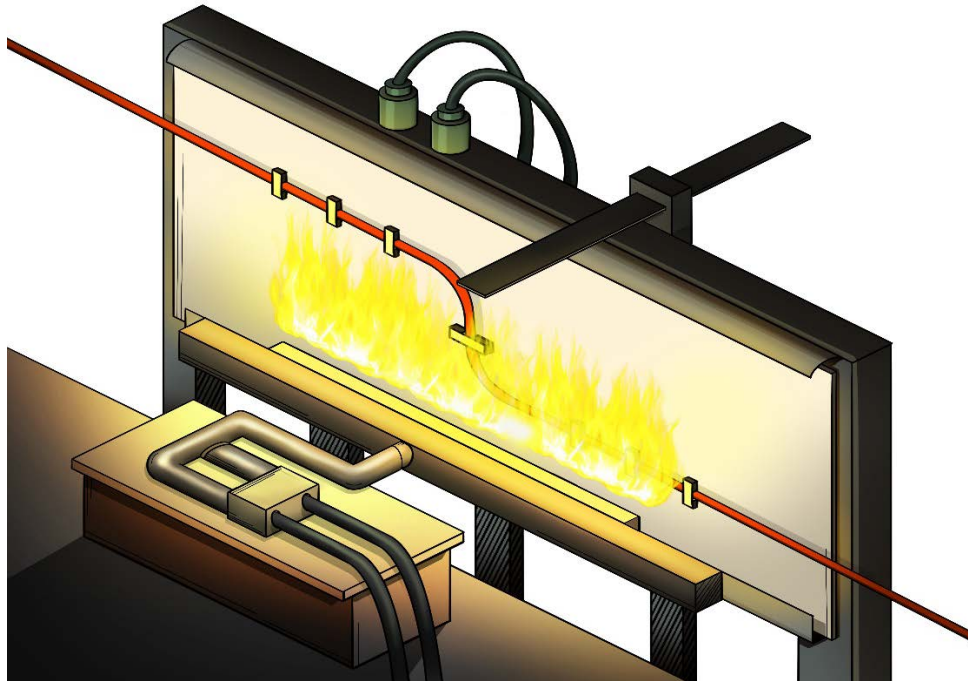


# Circuit Integrity EN 50200



**BS EN 50200: Method of test for resistance to fire of unprotected small cables for use in emergency circuits.**

EN 50200 specifies method of test for resistance to fire.

Temperature	830°C
Duration	15,30,60,90 & 120 Min.
Applied voltage	Rated Voltage
Mechanical shock*	Yes, Every 5min
Test result	Pass if the voltage is maintained out through the test

**\*Mechanical Shock:**

The shock producing device shall impact the cable wall after 5min+/-10s from fire activation and subsequently at 5min+/-10s intervals. A round steel bar (25+/-0.1) mm in diameter and (600+/-5) mm long shall be used as shock producing device. The bar is freely pivoted about an axis parallel to the cable wall and 200+/-5 mm away from the upper edge of the cable wall. Depending on the pass duration time the cables will carry the designation PH XXX, for instance a PH 120 have passed the duration of 120 min.

There is also an Annex E to EN 50200 which in addition to Fire also has the mechanical impact and water spray. This above test is followed by a 850 degree flame 15 min with fire and mechanical impact followed by another 15 min with mechanical impact and water spray.