

Details for Fire Sealing, Barriers/Breaks and Stops

- a) All cable entries into the panel (HV, MV, & LV SWGR Panels) should be provided with fire sealing arrangement. Cables/cable tray openings in walls and floors or through pipe sleeves from one area to another or from one elevation to another within the unit shall be sealed by a fireproof sealing system. The fireproof sealing (FPSS) shall effectively prevent the spread of fire from the flaming to non-flaming side in the event of a fire.
1. FPSS shall have fire rating of 2 hours.
 2. FPSS shall be subjected to fire endurance test, hose seam test, temperature measurement of non-flaming side as per ASTM-E119. Standard method of fire tests of building construction and materials.
 3. The FPSS will also conform to the incombustibility test carried out in accordance with IS: 3144-1992.
 4. Under fire condition or any corrosive or toxic fumes.
- b) Fire Break –Firebreak shall be provided by applying a suitable fire resistance coating on cables for the required length to meet the fire rating of hours. Firebreak shall be provided at an interval of 15 meters in the straight portion of each of the cable trays above ground, at intervals of 30meters in cable trenches and at 5 meters for all vertical trays. All cable intersections and tee offs shall be provided with fire breaks.
- c) Control cables must be laid without joints. For power cables, joints shall be avoided.