**IP RATING CHART**

Protection of persons and protection of equipment indicated by the IP code.

Protection provided by enclosures for electrical equipment is indicated by the IP codes two:

- **CHARACTERISTIC NUMERALS**

  The first numeral indicates protection of persons against access to hazardous parts, and protection of equipment against ingress of solid foreign objects. (see AS 1939, Clause 5)

  - 0: Non-protected
  - 1: Protection of the back of the hand against accidental access to hazardous parts, and protection of equipment against objects larger than 50mm.
  - 2: Protection of fingers against access to hazardous parts, and protection of equipment against objects larger than 12.5mm.
  - 3: Protection of persons holding tools or wires (larger than 2.5mm diameter), and protection of equipment against objects larger than 2.5mm (e.g. ball bearings).
  - 4: Protection of persons holding small tools or wires (larger than 1mm diameter), and protection of equipment against objects larger than 1mm. (e.g. ball bearings).
  - 5: Protection against entry of dust in sufficient quantity to interfere with satisfactory operation of equipment.
  - 6: Complete protection against entry of dust.

  The second numeral indicates protection of equipment against harmful ingress of water. (see AS 1939, Clause 6)

  - 0: Protection unspecified (untested)
  - 1: Protection against drops of water falling vertically.
  - 2: Protection against drops of water falling vertically when the object is tilted up to 15° from its normal position (in any direction).
  - 3: Protection against spraying water at up to 60° from the vertical.
  - 4: Protection against splashing and spraying water from all practicable directions.
  - 5: Protection against low pressure jets of water from all practicable directions.
  - 6: Protection against heavy seas or a strong jet of water from all practicable directions.
  - 7: Protection against temporary immersion.
  - 8: Protection against continuous submersion (tests subject to agreement, but no less severe than second numeral 7)