

The IP Code consists of the letters IP followed by two digits and an optional letter. As defined in international standard IEC 60529, it classifies the degrees of protection provided against the intrusion of solid objects (including body parts like hands and fingers), dust, accidental contact, and water in electrical enclosures.

The standard aims to provide users more detailed information than vague marketing terms such as waterproof.

| FIRST Number | PROTECTION AGAINIST SOLID | | SECOND NUMBER | PROTECTION AGAINIST LIQUIDS | | IK Code | MECHANICAL IMPACT RESISTANCE | |
|-----------------|---------------------------|--|------------------|---|--|------------|------------------------------|---------------------|
| 0 | \sim | Unprotected | 0 | ~ | Unprotected | 00 | \rightarrow | Unprotected |
| 1 | | >50 mm Any large surface of the body, such as the back of a hand, but no protection against deliberate contact with a body part | 1 | | Dripping water Dripping water (vertically falling drops) shall have no harmful effect | 01 | 200g 7.5cm | Impact = 0.15 joule |
| 2 | | >12.5 mm Fingers or similar objects | 2 | *************************************** | Dripping water when tilted up to 15° Vertically dripping water shall have no harmful effect when the enclosure is tilted at an angle up to 15° from its normal position | 02 | 200g 10cm | Impact = 0.20 joule |
| 3 | | >2.5 mm Tools, thick wires, etc. | 3 | 77 20 17 | Spraying water Water falling as a spray at any angle up to 60° from the vertical shall have no harmful effect | 03 | 200g 17.5cm | Impact = 0.35 joule |
| 4 | | >1.0 mm Tools, thick wires, etc. | 4 | 7,7,7,0,0,0,0 | Splashing water Water splashing against the enclosure from any direction shall have no harmful effect | 04 | 200g 25cm | Impact = 0.50 joule |
| 5 | | Dust protected Ingress of dust is not entirely prevented, but it must not enter in sufficient quantity tointerfere with the satisfactory operation of the equipment; complete protection against contact | 5 | | Water jets Water projected by a nozzle against enclosure from any direction shall have no harmful effects | 05 | 200g 35cm | Impact = 0.70 joule |
| 6 | | Dust tight No ingress of dust; complete protection against contact. | 6 | | Powerful water jets Water projected in powerful jets against the enclosure from any direction shall have no harmful effects | 06 | 500g 20cm | Impact = 1 joule |
| | | | 7 | 8 8 | Immersion up to 1 m Ingress of water in harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time (up to 1 m of submersion) | 07 | 500g 40cm | Impact = 2 joule |
| | | | 8 | 8 8 | Immersion beyond 1 m The equipment is suitable for continuous immersion in water under conditions which shall be specified by the manufacturer | 08 | 1.7kg 29.5cm | Impact = 5 joule |
| | | | d | hermetically sealed. equipment, it can m | s will mean that the equipment is However, with certain types of ean that water can enter but only in produces no harmful effects | 09 | 5kg 20cm | Impact = 10 joule |
| | | | | | | 10 | 5kg 40cm | Impact = 20 joule |