
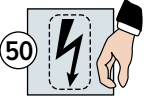
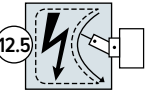
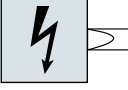

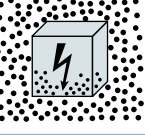
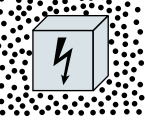


Ingress Protection (IP) Rating


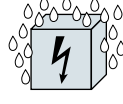
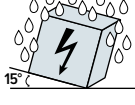
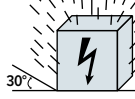
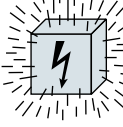
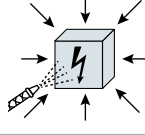
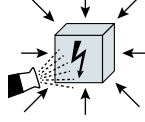
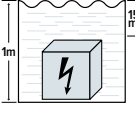
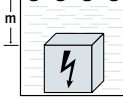
Example IP Rating

| | | |
|----------------------|-----------------------------------|-----------------------------------|
| IP | 6 | 5 |
| “Ingress Protection” | First Digit: Solids Protection | Second Digit: Water Protection |

First Characteristic Numeral

| Protection against solid objects | | | Effective against |
|----------------------------------|---|--|-------------------|
| IP Level | Example | Tests | |
| 0 |  | No protection. | Non-protected. |
| 1 |  | Full penetration of 50mm diameter of sphere not allowed. Contact with hazardous parts not permitted. | Back of hand. |
| 2 |  | Full penetration of 12.5mm diameter of sphere not allowed. The jointed test finger shall have adequate clearance from hazardous parts. | Finger. |
| 3 |  | The access probe of 2.5mm diameter shall not penetrate. | Tool. |
| 4 |  | The access probe of 1mm diameter shall not penetrate. | Wire. |
| 5 |  | Limited ingress of dust permitted (no harmful deposit). Dust protected. | Wire. |
| 6 |  | No ingress of dust. Dust tight. | Wire. |

Second Characteristic Numeral

| Protection against water | | | Effective against |
|--------------------------|--|--|---|
| IP Level | Example | Tests | |
| 0 |  | No protection. | Non-protected. |
| 1 |  | Protection against vertically falling drops of water. | Vertically dripping. |
| 2 |  | Protected against vertically falling drops of water with enclosure tilted 15° from the vertical. | Dripping up to 15° from the vertical. |
| 3 |  | Protected against sprays 60° from the vertical. | Limited spraying. |
| 4 |  | Protected against water splashed from all directions - limited ingress permitted. | Splashing from all directions |
| 5 |  | Protected against low pressure jets of water from all directions - limited ingress permitted. | Hosing jets from all directions. |
| 6 |  | Protected against strong jets of water, eg for use on ship decks - limited ingress permitted. | Strong hosing jets from all directions. |
| 7 |  | Protected against the effects of immersion between 150mm and 1m. | Temporary immersion. |
| 8 |  | Protected against continuous submersion at a specified depth. | Continuous immersion. |

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