

# IP Ratings Card

IP Rating is a system used to classify the effectiveness of enclosures against ingress from foreign objects, such as tools, dust & water.

IP Ratings include the letters 'IP' (Ingress Protection) followed by two separate digits; each of these digits represents different levels of protection. The first digit identifies the level of protection against solid particle ingress and the second digit defines the protection from the ingress of liquids/moisture.

## IP RATINGS - SOLID OBJECTS



**0** Unprotected.



**1** Protected from accidental access of a large part of the body (e.g. a hand) or solid objects 50mm in diameter and greater.



**2** Protected from fingers or solid objects up to 80mm in length and 12mm in diameter.



**3** Protected from solid objects 2.5mm in diameter and greater (e.g. tools, wires).



**4** Protected from solid objects 1mm in diameter and greater (e.g. smaller wires & tools).



**5** Protected from harmful volumes of dust.



**6** Completely protected - dust tight.

## IP RATINGS - LIQUIDS



**0** Unprotected.



**1** Protected from vertically dripping water (e.g. condensation).



**2** Protected from vertically dripping water when the enclosure is tilted at an angle of up to 15°.



**3** Protected from spraying water from angles up to 60° from vertical.



**4** Protected from water splashed from all directions.



**5** Protected from water from jets (low pressure).



**6** Protected from powerful jets of water.



**7** Protected against temporary immersion in water up to 1m.



**8** Protected against extended periods of immersion under pressure (time and depth of immersion must be specified).

GTK is a global provider of electronics solutions including cable assemblies, connectors, optoelectronics and manufacturing solutions.

### Capabilities:

- Serving a variety of industries, including Aerospace, Medical & Automotive.
- Extensive product capabilities for cable assemblies, connectors & optoelectronics.
- Manufacturing solutions service providing custom enclosures & sub-assemblies.
- Global manufacturing resources with facilities in the UK, Romania, China and Taiwan.
- FastTrack prototyping in the UK with delivery within five days of enquiry.
- ISO 9001 & 14001 approvals; UK facility has AS9100C certification & UL approval.

