

# Solids

1 

Solid objects greater than 50mm.  
(e.g. hands)

2 

Solid objects greater than 12.5mm in diameter. (e.g. fingers)

3 

Solid objects greater than 2.5mm in diameter. (e.g. Tools)

4 

Solid objects greater than 1mm in diameter.  
(e.g. wires, screws)

5 

Allows some dust entry without affecting equipment operation.

6 

Dustproof. Completely prevents dust ingress.

## Ingress Protection Rating

IP stands for Ingress Protection. It is a way of rating how well protected the device is from things that can get into it. The first number rating solid objects and dust from 1 to 6. The second figure is the water protection rating. The range is from 1 for slow dripping water from above up to 8 for a device that can be submerged.

# IP67


# Water

1 

Protection against vertically falling drops of water.

2 

Protection against direct sprays of water up to 15° from vertical.

3 

Protection against direct sprays of water up to 60° from vertical.

4 

Protection against water splashed from all directions.

5 


Protection against water jets from all directions.

6 

Protection against powerful water jets and waves.

7 

Protection against temporary immersion in water up to 1m for 30 minutes.

8 

Protection against continuous immersion in water. (up to 4m)