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Ingress Protection Rating or IP is an International Protection Rating which classifies and rates the degree of protection provided against the intrusion of solid objects and water.

Ingress Protection, First Digit: Solids

0 No protection

1 Protected from Touch by Hands greater than 50mm

2 Protected from Touch by Fingers greater than 12mm

3 Protected from Tools and Wires greater than 2.5mm

4 Protected from Tools and small Wires greater than 1mm

5 Protected from Limited Dust Ingress

6 Protected from Total Dust Ingress

Ingress Protection, Second Digit: Liquids

0 No protection

1 Protected from Condensation

2 Protected from Water Spray less than 15 degrees from vertical

3 Protected from Water Spray less than 60 degrees from vertical

4 Protected from Water Spray from any direction

5 Protected from low pressure water jets from any direction

6 Protected from high pressure water jets from any direction

7 Protected from immersion between 15cm and 1m in depth

8 Protects from long term immersion up to a specified pressure